

Start with a simple, secure, and reliable IT network

Discover a range of product, software and networking solutions ideal for SMBs

START

Cisco Start Catalog for Asia Pacific

May, 2018

 Version 4.1

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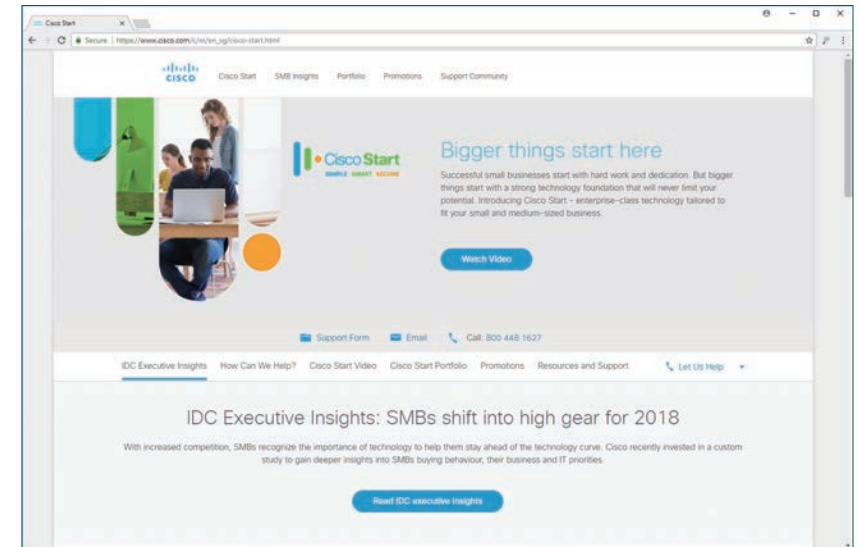
Routers

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Cisco Start Website

Visit our website for your country, simply by typing "cisco start" on the search engines such as Google.

Cisco Start



Cisco Start Helpline by Country

Country	Website	Email	Direct Line 9 AM to 6 PM Local Time	Toll Free Number 9 AM to 6 PM Local Time
Australia	https://www.cisco.com/c/m/en_au/cisco-start.html	csg-au@cisco.com	61284463050	1800 134 349 (Press 5 then 2 then 1)
India	https://www.cisco.com/c/m/en_in/cisco-start.html	csg-in@cisco.com	918042501535	000 800 100 1364 (Press 7)
Indonesia	https://www.cisco.com/c/m/en_id/cisco-start.html	csg-id@cisco.com	622127546455	001 803 61 838 (Press 7)
Japan	http://www.cisco.com/jp/go/start	-	-	-
Korea	https://www.cisco.com/c/m/ko_kr/cisco-start.html	csg-kr@cisco.com	82234298295	0803 77 0880 (Press 5 then 2 then 1)
Malaysia	https://www.cisco.com/c/m/en_my/cisco-start.html	csg-my@cisco.com	60320811595	1800 88 1292 (Press 5 then 2 then 1)
New Zealand	https://www.cisco.com/c/m/en_au/cisco-start.html	csg-nz@cisco.com	6444982465	0800 291 129 (Press 5 then 2 then 1)
Philippines	https://www.cisco.com/c/m/en_ph/cisco-start.html	csg-ph@cisco.com	6328653411	1800 1441 0466 (Press 5 then 2 then 1)
Singapore	https://www.cisco.com/c/m/en_sg/cisco-start.html	csg-sg@cisco.com	6563177048	800 4481627 (Press 5 then 2 then 1)
Thailand	https://www.cisco.com/c/m/th_th/cisco-start.html	csg-th@cisco.com	6622637099	001 800 611 0754 (Press 7)
Vietnam	https://www.cisco.com/c/m/en_vn/cisco-start.html	csg-vn@cisco.com	84439746990	1800 585 809 (Press 5 then 2 then 1)

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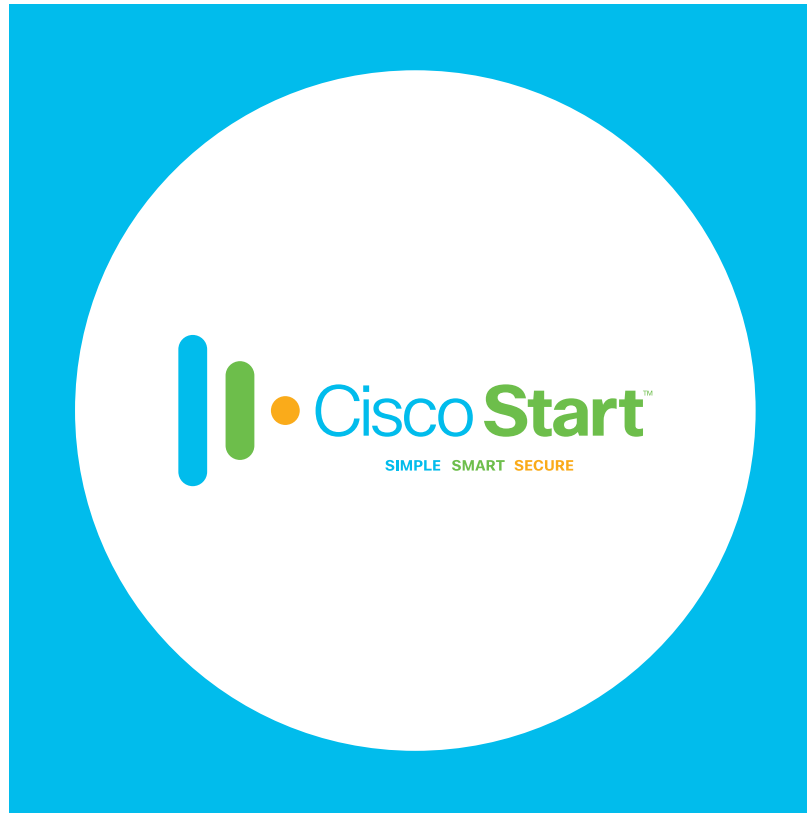
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Why Cisco Start?



Successful small businesses start with hard work and dedication.

But bigger things start with a strong foundation that will never limit your potential.

That's what Cisco Start provides to SMBs.

A strong technology foundation so that they can focus on bigger things.

Because bigger things start here.



Why Bigger Things Start Here?



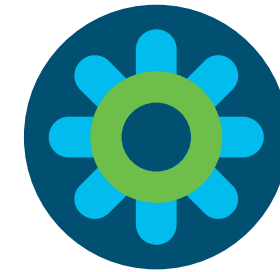
Best of Breed Portfolio

- Solutions and services to meet any customer need and grow your Cisco business
- Market leadership across 'Collaborate', 'Compute', 'Secure', 'Connect'
- Simple, smart and secure



Increased Profitability

- Best available competitive and dynamic pricing
- Programs & incentives that grow your bottom line
- Capitalize on Cisco Start marketing investments



Ease of Doing Business

- Simplified pricing and ordering with promotion codes from distributors
- Assets, training and support to help you sell
- Dedicated Cisco support specialists



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Best of Breed Portfolio

In today's demanding business landscape, SMBs are constantly on the lookout for ways to differentiate and get ahead of the competition via technology.

We anticipate their needs, guide them through challenges, and help them grow their businesses. When it comes to the business and IT priorities of SMBs, no one knows better than Cisco.

As a new partner to Cisco, you can get started by selling Cisco Start – enterprise-class technology tailored for SMBs.



Collaborate



Compute



Security



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Increased Profitability




Earn rewards for new business and high-volume sales. Find discounts for our products.

- **Fast Track** (Registered & above partners – SKU based): Fast-track your sales by taking advantage of increased SKU based discounts for high-volume product sales. 
- **NFR – Not for Resale** (Registered & above partners – conditions apply): Buy our products and software at discount to use for internal testing and training. 
- **Deal Registration** (Select Certified & above partners): Bring in new business, or partner with us on presale deals. Get discount advantage and program benefits for hunting and teaming by registering deals with us. 




Earn rewards when you sell our technologies, support customers and more.

- **Cisco Commercial Xcelerate** (Registered & above partners – Commercial segment only): Cisco is enriching the incentive program to better recognize and reward our Commercial partners. As our Commercial partners, the more you invest in the Cisco partnership and deliver on the business goals, the more you will be rewarded for your success. 






Earn rebates when you help sell our products and grow the midmarket.

- **VIP – Value Incentive Program** (Registered & above partners – requires track based specialisations and other conditions apply): Sell our products in key growth areas and gain rebates to increase your earnings or reinvest in your business. 



Market like you mean it. We help you reach new customers.

- **Partner Marketing Central**: Create more demand for your solutions with our marketing tools. 
- **Marketing Velocity**: Learn new skills; connect with experts. Get what you need for success. 
- **Logo & Banners**: Use our brand to promote your success. Our visuals help you stand out. 



Ease of Doing Business

Everyday Low Prices (Fast Track)

- Single products and services



Purchase Programs Special Promotions











Limited Time Offers

- Bundles
- Other types of promotions

Before a Sale

During a Sale

After a Sale

● Hunting Incentive (OIP) 	● Standard Not for Resale Program (NFR) 	● Value Incentive Program (VIP) - Architecture Led Selling Rebate 
● Teaming Incentive (TIP) 	● Fast Track Promotion Pricing 	● Commercial Sales Rewards Program "Commercial Xcelerate" 
● Solution Incentive Program (SIP) - Solution Led Selling 	● Architecture Specific Promotions 	● Partner Sales Competition "Commercial Champs" 
● Technology Migration Program (TMP) 		
● JMF or ASAP for Marketing		
● Big Bet or Quick Bets for Business Growth		

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Partner Journey to Value Portfolio

Partner Registration

Ensure partner is completes registration with Cisco

Increased Focus on Cisco Start

Simplified portfolio and offers tailored for Small Businesses

Aspire for Partner Plus*¹

Learn and prepare to meet eligibility criteria for the flag-ship program in commercial segment



Familiarise with Commercial Offer

Register for CX Rewards, learn about commercial landscape, start portfolio and offerings

Certification and Incentives

Did you know that a Select Partner is more profitable and eligible for larger incentives than a registered partner?

*¹ Entry into Partner Plus is by invite only and this journey can only help them meet the eligibility criteria, not guarantee an invite. Other criteria on bookings, YOY growth and commercial share of business need to be satisfied to be invited for the program.

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Products

Promotions

• Cisco UCS C-Series M5 Rack Servers



• Cisco Nexus 9348GC-FXP Switch



• Cisco Intersight



• Cisco Meraki Z3 Cloud Managed Teleworker Gateway



• Cisco Meraki MS120-48FP Cloud Managed Switch



• Cisco 3504 Wireless Controller



• Cisco Meraki MV12 Cloud Managed Security Cameras



• Cisco Meraki MR20 Cloud Managed Access Point



• Cisco ISR 1100 Series



• Cisco Meraki MR42E Cloud Managed Access Point



• Cisco 250 Series Smart Switches



• Cisco 350 Series Managed Switches



• Cisco 350X Series Stackable Managed Switches



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Cisco Start Promotion Guide for Cisco Partners Q4 FY18

Increase your profitability and win competitive deals by taking advantage of short-term promotions. For details, download our full promotion guide, "Cisco Start Promotion Guide for Cisco Partners Q4 FY18."

[Download Available from Here!!](#)



APJ Promo Summary ANZ ASEAN INDIA JAPAN KOREA How to Buy

Cisco Next Gen Meeting Promotion Spark Room Kit, Spark Room Kit Plus

Cisco Spark Room Kit

Cisco Spark Room Kit Plus

Region	Next Gen Meeting PP Code
ASEAN*	PP-FTBu-180427-04258
AU	PP-FTBu-180427-04282
NZ	PP-FTBu-180427-04258
INDIA	PP-FTBu-180427-04258
JAPAN	PP-FTBu-180427-04259
KR	PP-FTBu-180427-04258

* Exclude Vietnam

[Click here to find out how to order](#)

World-class superior conference experience starting from only **USD\$3,990!**

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APJ Promo Summary ANZ ASEAN INDIA JAPAN KOREA How to Buy

DC TOR switch N9348 promotion - Buy one, get one half price

1st at attractive price

2nd at half price

50% off

Main Features

- Supports full switching, VXLAN, ACL, reversible power, fans and PoE (software on roadmap)
- A low cost, highly available device that can act as the core switch for smaller environments
- Supports all of the highly available services like VPC, ISSU (software on roadmap), line rate encryption through Macsec
- Offers simpler cabling and scaling both standalone or within an ACI environment, allowing for the same physical topology regardless of the logical networks deployed

Only available on FT **FAST TRACK Bundle SKU: N9K-C9348-FX-B14Q**

Country	FAST TRACK Promo Code
Australia	PP-Fast-150124-32368
New Zealand	PP-Fast-150124-32371
India	PP-Fast-150124-32347
Japan	PP-Fast-150124-32369
Korea	PP-Fast-150725-41553
Indonesia	PP-Fast-150725-41512
Malaysia	PP-Fast-150725-41552
Philippines	PP-Fast-150124-32348
Singapore	PP-Fast-150124-36968
Thailand	PP-Fast-150725-41529
Vietnam	PP-Fast-150725-41548

Notes:

- Bundle includes two switches + cables. Second switch within the bundle is at 50% off
- Base pricing based on Account Breakaway discounts.

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APJ Promo Summary ANZ ASEAN INDIA JAPAN KOREA How to Buy

NGFW FPR 2110 seasonal promotion

10% more discount on appliance, 5% more discount on licenses

Exceptional sustained performance when advanced threat functions are enabled

Only available on Fast Track Accelerator promotion SKU to quote:

Country	Promotion code
India	PP-Fast-180126-03855
Korea	PP-Fast-161029-113152
Australia	PP-Fast-160803-111252
New Zealand	PP-Fast-161030-113651
Indonesia	PP-Fast-170429-01003
Malaysia	PP-Fast-161030-114831
Philippines	PP-Fast-170429-01007
Singapore	PP-Fast-170429-01011
Thailand	PP-Fast-160730-113069
Vietnam	PP-Fast-170429-00999

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APJ Promo Summary ANZ ASEAN INDIA JAPAN KOREA How to Buy

Cisco Start Guest WiFi Bundle: 10 access points with 1 switch

WIFI Plus Access Switch Combo

WIFI Plus Access Switch Combo

Customers expect to have access to great Wi-Fi that's easy to connect to wherever they go. Cisco Start Guest Wi-Fi makes it easy to give them access to a stable, reliable, fast Wi-Fi network that's secure for you and them.

Promotion Region	PP Code	AP SKUs with quantity	Switch SKU with quantity
AU	PP-WiFi-180127-02302	AIR-AP1815W (10)	SG350-26P (1)
NZ	PP-WiFi-171029-02303	AIR-AP1815W (10)	SG350-26P (1)
Korea	BR-WiFi-171029-01962	AIR-AP1815W (10)	WS-C2960L (1)
ASEAN	PP-GWFi-180428-03401	AIR-AP1815W (10)	WS-C2960L (1)

For Partner: Solution Layer - Earn up to 5,000 Reward Points on Guest WiFi Packages

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The Best of Both Worlds

Whether you go with on-premises, cloud-managed, or hybrid, with Cisco you can build a network solution that is ideal for your application strategy, your IT staff's capabilities, and your business requirements.



Cisco On-premises & Cloud-managed Solutions

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How to Choose between On-premises and Cloud-managed Solutions

Now Cisco offers both on-premises and cloud-managed solutions for network infrastructure;

- **On-premises:** Catalyst, Aironet, ISR/ASA
- **Cloud-managed:** Meraki

Which solution should we use? Here are questions to help you choose between on-premises and cloud-managed solutions.

● Where will your applications live?

If you're not comfortable with moving applications to the cloud for the next 3 to 5 years or are restricted due to security and privacy guidelines, an on-premises solution may be the way to go.

On the other hand, if you want to simplify and centralize overall network management, if you're ready to move applications to the cloud, or if you have already set up some cloud services, Cisco Meraki cloud-managed solution might be best.

● Do you have local IT support in most locations or are you struggling to scale your staff?

On-Premises: If your IT staff consists of technical experts who want a highly customizable network, consider an onpremises solution.

Cloud-Managed: If your IT staff is small or stretched thin and is looking for ways to simplify deployments, consider a cloud-managed approach.



● How do you buy IT solutions?

If you prefer to budget each project independently in a CapEx model, go with an on-premises deployment. If you'd rather pay for licenses and services over time in a renewable model through a subscription or OpEx-based approach, cloud management is best.

● How are you supporting mobile devices?

On-premises networks can be great when you need advanced features, whereas cloud-managed networks offer quick setup and visibility.

On-Premises:

- Intelligent Caching
- Optimization Techniques
- Customized deployments

Cloud-Managed:

- Turnkey Installation
- Networkwide Visibility
- Management Simplicity

● What matters to you most?

On-Premises:

- Advanced Features
- Dynamic Service Rollouts
- Deep Visibility

Cloud-Managed:

- Ease of Use
- Security and Reliability
- Out-of-the-Box

Overview

How to Choose

Network as a Platform

Network as a Service

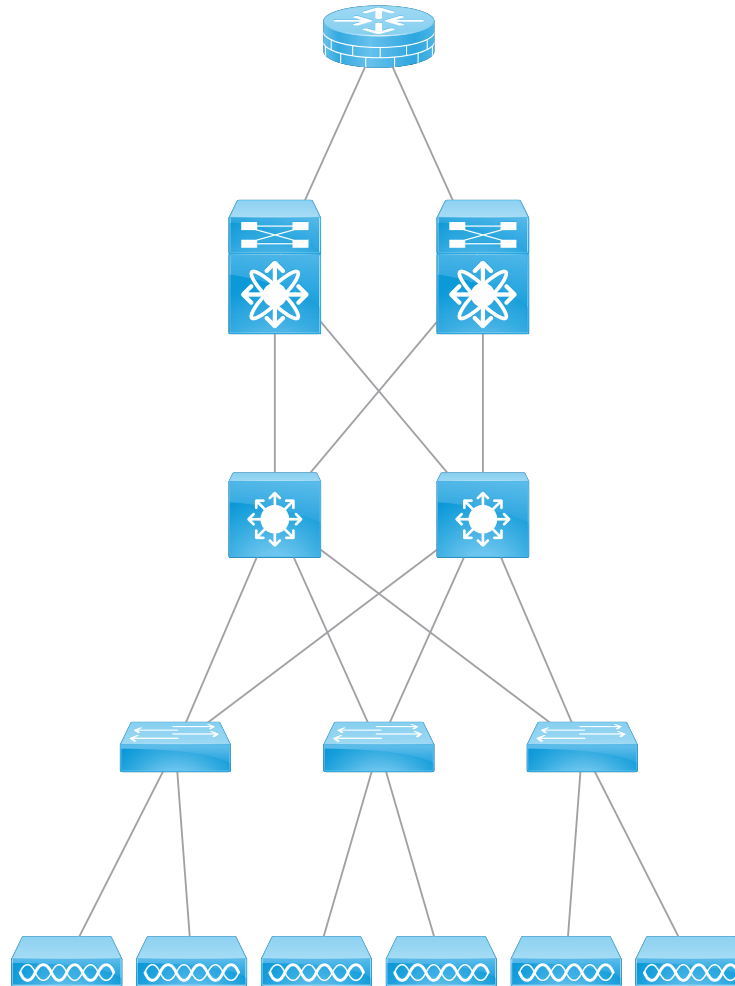
Typical Deployment of On-Premises: Network as a Platform

Router/Firewall

Core Layer

Distribution Layer

Access Layer



- Flexible Deployment and configuration options
- Highly customizable and advanced feature set
- Advanced services, extended support
- Extensive security integration capabilities with ISE



DNA Center



ISE



Mobility Express App

Overview

How to Choose

Network as a Platform

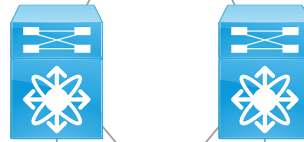
Network as a Service

Typical Deployment of Cloud-Managed: Network as a Service

Router/Firewall



Core Layer (Cisco)

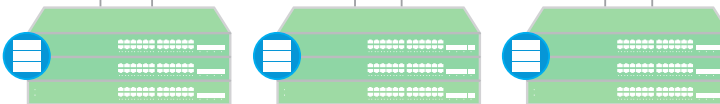


Distribution Layer



Virtual Stacking

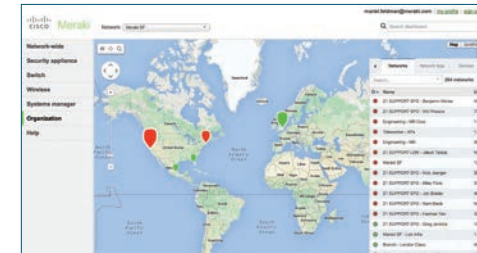
Physical Stacking



Access Layer



- Easy to deploy and manage over the web
- Out-of-the-box optimized feature set
- Ongoing managed upgrades and enhancements
- Optimized for lean IT, with limited requirement for 3rd party integration



Meraki dashboard



Zero-touch deployment



Extend cloud management to devices

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Featured Products

Portfolio

Cisco Spark Room Kit Series

Turn Your Flat Panel Display into a Smart Video Conferencing System and Bring More Intelligence and Usability to Your Small to Large-Sized Meeting Rooms



 CS-KIT-MSRP-K9 / CS-KIT-K9

 CS-KITPLUS-MSRP-K9 / CS-KITPLUS-K9

All-in-One Device	For Rooms Up to 7 Seats	5K UltraHD Camera	3x Digital Zoom	Video Output 4Kp60	Video Input 4Kp30	Codec + Camera Bar	For Rooms Up to 14 Seats	5K UltraHD Quad Camera	5x Digital Zoom	Video Output 4Kp60	Video Input 4Kp30
Local Sharing 4Kp30	Remote Sharing 4Kp5	Wireless Sharing	11ac Wave 2	SIP H.323	Cisco Spark	Local Sharing 4Kp30	Remote Sharing 4Kp5	Wireless Sharing	11ac Wave 2	SIP H.323	Cisco Spark

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Cisco Spark Room Kit Series



Cisco TelePresence SX10 Quick Set



Cisco Spark Board

On
Every Desk



Cisco IP Phone 7800/8800 Series

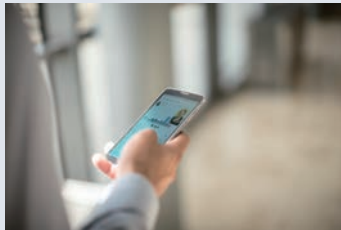


Cisco SPA300/500 Series IP Phones



Cisco DX80

In
Every Pocket



Cisco Spark app



Cisco WebEx app

Platform



Cisco Spark



Cisco Business Edition 4000

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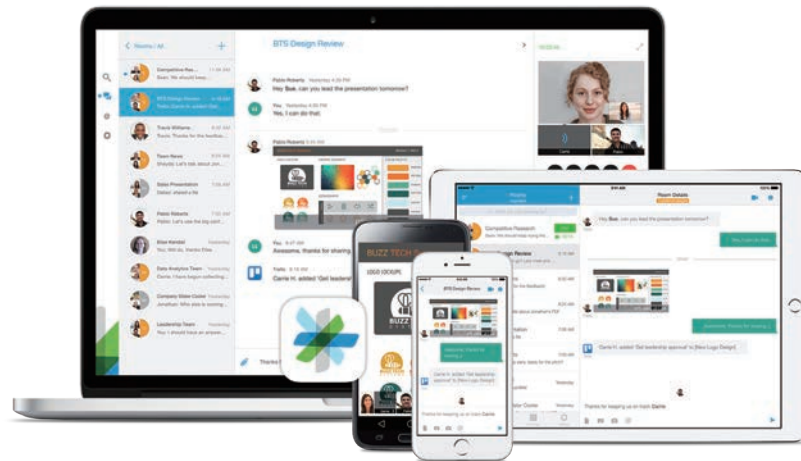
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A Better Way for People to Create Together

The Cisco Spark is an app-centric cloud-based service that provides a complete collaboration suite for teams to create, meet, message, call, care, whiteboard, share, regardless of whether they're together or apart; in one continuous workstream before, during, and after meetings. It is built to make teams work seamlessly. It is a simple, secure, complete, and open service that enables people to work better.



Designed for the Way You Do Business

The Cisco Spark service delivers a powerful set of communications services for all the ways you need to communicate. Maybe you're a startup business with an ad hoc solution, or you have an outdated key system or PBX and want to upgrade.

Perhaps you've already made the move to IP or deployed a cloud-based service and want to expand your capabilities even further. Cisco Spark will take your communications to the next level by providing the benefits of a complete business collaboration service for everyone in your company: one service, one experience, for everyone.

One Experience



Meetings

Meet
Physically & Virtually
- Seamlessly -



Messaging

1:1 & Team
Persistent
Messaging & Content



Calling

Cloud-based
Phone System*1

One Offer

Meet. Message. Call.

With the Cisco Spark solution:

- **Meetings:** Bring together to create, communicate and collaborate in a one continuous workstream before, during, and after the meeting so teams can be even more effective, across any mobile or video device. Invite others to join meetings from their desk, a branch office, at home, or on the road.
- **Messaging:** The ability to exchange messages and share files with another person or a group of people. Message anyone. Choose someone from your company directory or simply enter anyone's email address and start messaging customers, partners, anyone you need to work with.
- **Calling:** Cisco Spark includes a cloud-based phone system. With Cisco Spark, you can make calls to any other Cisco Spark user in any company via SIP dialing, as well as calling regular landline and mobile phones via the PSTN*1. You can make and receive calls from a phone connected to the Cisco Spark service in the office or from the Cisco Spark app on your mobile phone or desktop.

*1 Cisco Spark service doesn't include PSTN services.



Overview

Features & Licenses

Why Spark?

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Cisco Spark Named User Licenses

Offer	Free	Business Messaging	Basic Meetings	Advanced Meetings
Product SKU**	-	A-SPK-NU-M1	A-SPK-NU-M2	A-SPK-NU-M3
1:1 Video Calling with Screen Sharing	●	●	●	●
Max Participants per Meeting in Cisco Spark Spaces	3	3	25	25
Max Participants per Scheduled Meetings in Cisco Spark Spaces	-	-	25	25
Max Participants per Meeting Powered by Cisco WebEx video conferencing	-	-	-	200
Messaging	●	●	●	●
File Sharing	●	●	●	●
End-to-End Content Encryption and In-Transit and Media Encryption	●	●	●	●
Pooled Storage per User	-	5 GB	5 GB	5 GB
Cisco WebEx Storage per Site (NBR, Documents)	-	-	-	10 GB
Cisco Spark Space Moderation	-	●	●	●
Compliance Exports	-	●	●	●
Mobile Calendar and Contacts Integration	●	●	●	●
SSO and Directory Integration	-	●	●	●
Unlimited Integrations	-	●	●	●
Online Self-Service Support	●	●	●	●
Basic Technical Support Services	-	●	●	●
User Management	-	●	●	●
Cisco Spark Control Hub (Standard)	-	●	●	●

*1 A-SPK-NAMED-USER is required.

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WebEx

Business Edition 4000

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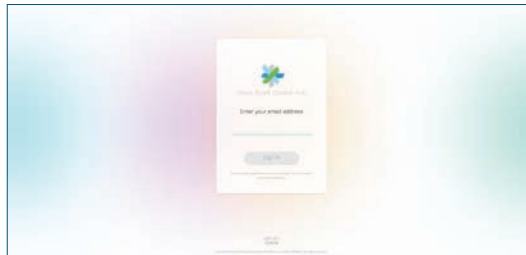
Services

Simple Provisioning

You can join a meeting from the Cisco Spark app, but also from any device registered to Cisco Spark. Setting up Cisco Spark device only takes a couple of easy steps.

- Register a Cisco Spark device to the Spark cloud

1 Sign in to the Cisco Spark Control Hub



2 Register the device

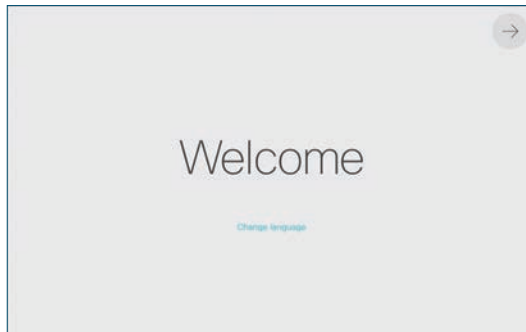


3 Get an activation code

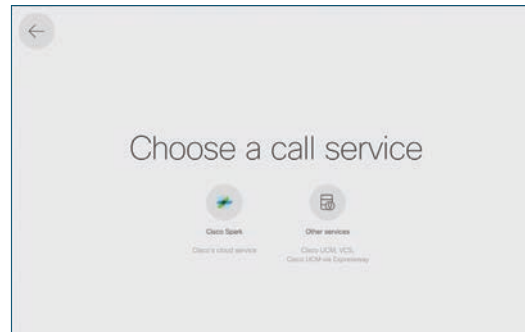


- Activate the Cisco Spark device in the setup wizard

1 Launch the setup wizard



2 Choose Cisco Spark



3 Enter the activation code



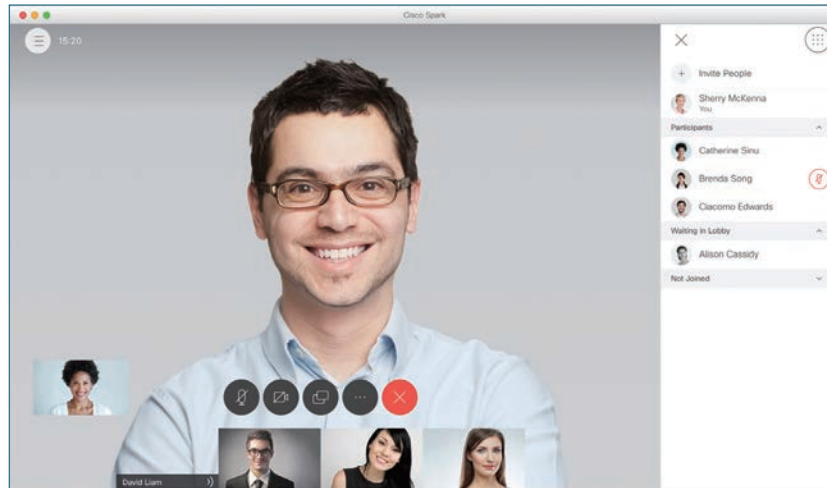


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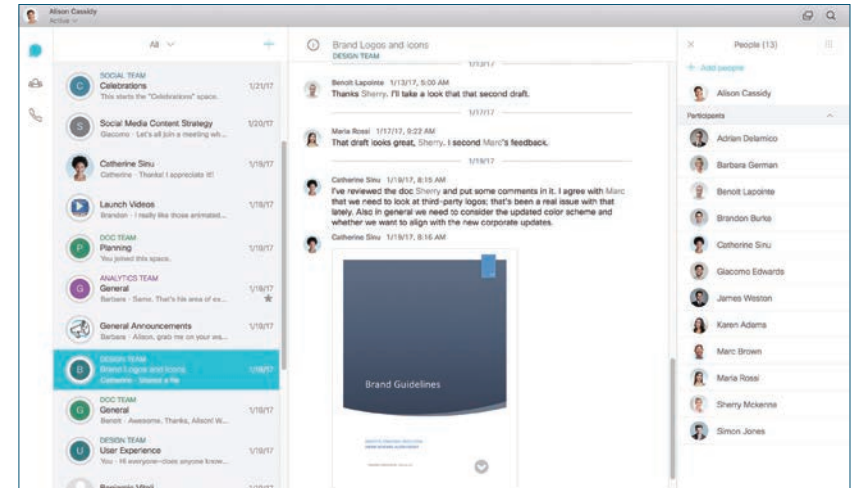
Features & Licenses

Why Spark?

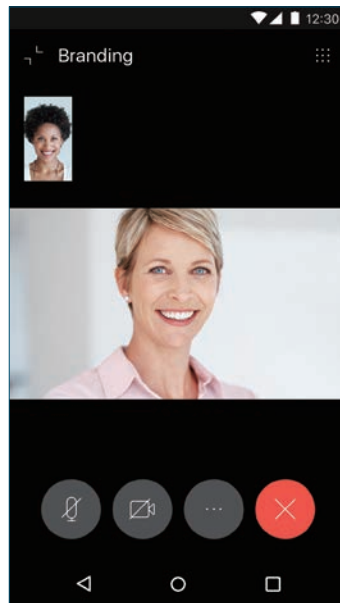
Gallery



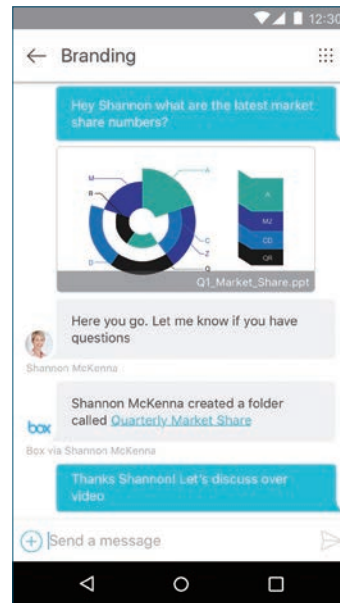
Video Meeting (Desktop)



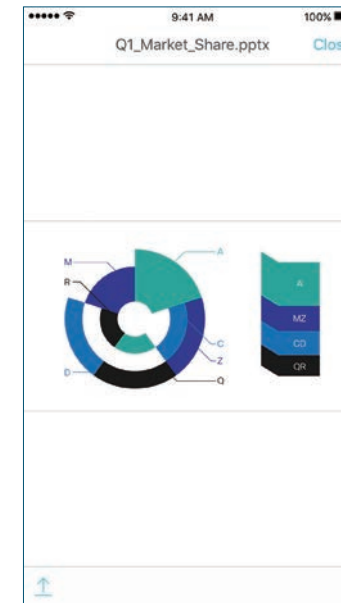
Spark Space (Desktop)



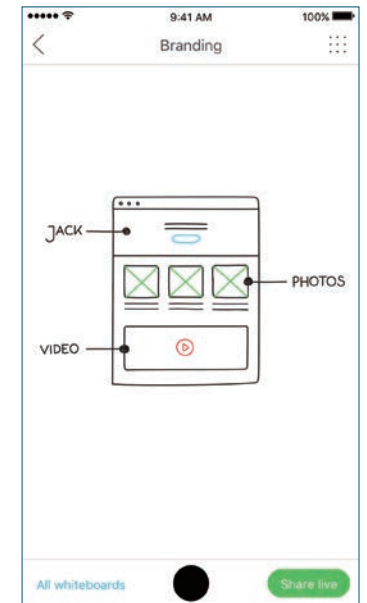
Video Calling (Mobile)



Message Thread (Mobile)



File Preview (Mobile)



White Board (Mobile)

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Overview

Meet with Anyone, Anywhere, on Any Device

Use People-Centric Web Conferencing Collaboration

Take advantage of industry-leading web conferencing capabilities to facilitate compelling, productive team meetings. With the **Cisco WebEx** online collaboration solutions, organizations of any size can:

- Promote collaboration with anyone globally, anywhere, anytime, on any device
- Increase productivity with an engaging, interactive web conferencing meeting experience
- Improve day-to-day efficiency and streamline meeting activities
- Save time and money by reducing the need to travel

Reduce Costs, Optimize Investments

Cisco WebEx web conferencing solutions help reduce costs and optimize IT resources. Delivered through the **Cisco WebEx Cloud**, these solutions are easy to implement and scale throughout your organization. Cisco WebEx solutions:

- Require no large, up-front investment, and offer a predictable cost and licensing model
- Offer quick global deployment and easy adoption for users inside or outside firewalls
- Help you cut costs on hardware, software, and maintenance
- Give you the time to focus on strategic business projects instead of conferencing operations
- Integrate web conferencing with existing Cisco investments such as **Cisco Jabber**, **Cisco Spark**, and **Cisco TelePresence** solutions

Meetings Available for Anyone at Any Time on Any Device

Whether you use Cisco Systems, Polycom, or other SIP or H.323 based video conferencing systems, you can easily connect to a WebEx meeting with the **Cisco WebEx Meeting Center** video conferencing.



Meet from Any Standards-based Video System

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Simple, Cloud-Managed Office Communications

The **Cisco Business Edition 4000 (BE4000)** is a dedicated voice appliance for small to midsize businesses, providing IP telephony and voicemail services for up to 200 devices. Unlike competing solutions, it is completely cloud-managed, featuring simple and intuitive management capabilities that make it easy to deploy, manage, and use.



Highlights

- **Reduce the Cost of Communications.** Lower call charges and consolidate networking overheads with an affordable IP phone system, optimized for small and midsize businesses
- **Respond Quickly.** Preconfigure and deploy a BE4000 system in less than one day
- **Simplify Administration** with intuitive cloud-hosted management for IT admins and end-user preferences
- **Strengthen Relationships** with reliable VoIP telephony, offering superior clarity that supports a host of calling features
- **Be More Flexible** with support for the latest Cisco IP phones for a range of use cases and budgets
- **Invest with Confidence.** Plan for technology migrations ahead of time, with flexible, term-based licensing plans and hardware investment protection as you migrate to cloud or hybrid collaboration with Cisco Spark
- **High-Quality Telephony and Voicemail:** Supports the latest Cisco IP Phone 7800 and 8800 Series phones, delivering wideband audio with superior clarity
- **Comprehensive Calling Features:** Call park, hold, and transfer, plus hunt groups, conference, auto attendant, and much more
- **Quick to Deploy:** Cisco partners can preconfigure settings and deploy a new system in less than a day
- **Easy to Manage:** A simple dashboard for administrators keeps key status information close to hand and makes everyday additions of users and phones a breeze
- **Easy to Own:** One-, three-, or five-year term-based license plans make it easy to plan for future investments and provide access to telephony features, the management portal, and award-winning 24x7 Cisco support
- **Starting at Just 10 Users:** Competitively priced solution for small-business budgets

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Product SKU	Supported Users		Maximum IP Phones	Analog Device	Voicemail		Ports		Expansion Slots		Supported Voice Modules via NIM				Power Supply	Rack Mount
	Minimum	Maximum			Mailboxes	Storage (Hours)	GE	GE/SFP	NIM	PVDM	T1/E1	FXS	FXO	BRI		
BE4S-V-K9	10	200	200	●	200	120	1	1	2	1	●	●	●	●	External	1 RU

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Cisco Business Edition 4000 Licenses

Product SKU			Description
1-Year ^{*1}	3-Years ^{*2}	5-Years ^{*3}	
A-BE4K-1YR-SEAT	A-BE4K-3YR-SEAT	A-BE4K-5YR-SEAT	Per User License

*1 A-BE4K-1YR-K9 is required. *2 A-BE4K-3YR-K9 is required.

*3 A-BE4K-5YR-K9 is required.

Cisco T1/E1 Voice and WAN Network Interface Modules (NIMs)

Product SKU	Description
NIM-1MFT-T1/E1	Voice/WAN Module (1-port T1/E1) ^{*1}
NIM-2MFT-T1/E1	Voice/WAN Module (2-port T1/E1) ^{*2}
NIM-4MFT-T1/E1	Voice/WAN Module (4-port T1/E1) ^{*3}

*1 PVDM4-32 is required. *2 PVDM4-64 is required.

*3 PVDM4-128 is required.

Cisco Analog Voice Network Interface Modules (NIMs)

Product SKU	Description
NIM-2FXSP	Voice Module (2-port FXS)
NIM-4FXSP	Voice Module (4-port FXS)
NIM-2FXO	Voice Module (2-port FXO)
NIM-4FXO	Voice Module (4-port FXO)
NIM-2FXS/4FXOP	Voice Module (2-port FXS and 4-port FXO)
NIM-2BRI-NT/TE	Voice Module (2-port BRI)
NIM-4BRI-NT/TE	Voice Module (4-port BRI)

Cisco Packet Voice Digital Signal Processor Modules (PVDMS)

Product SKU	Description
PVDM4-32	High-density Voice DSP Module (16-channel)
PVDM4-64	High-density Voice DSP Module (32-channel)

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VoIP and Video Phones to Meet a Range of Needs

The Cisco IP Phones empower your business with a new collaboration experience that connects you with the right people, with the right information at the right time, so you can accelerate team performance and maximize your business results.

The Cisco IP Phone portfolio includes an impressive range of user-friendly, full-featured VoIP and HD video phones that can meet the needs of your entire organization.



Cisco IP Phone 7800 Series Highlights

- Affordable Voice Communications Solution with cost-effective, feature-rich models that can be flexibly deployed on-premises or in the cloud via Cisco Spark, along with multiplatform support with select Cisco approved third-party UC-as-a-Service (UCaaS) providers
- Superior Audio Experience with full wideband audio support on select models (handset, headset, and speaker) for crystal-clear audio performance
- Energy Efficient and Eco-Friendly with low power consumption, recyclable plastics in the hardware design and Cisco EnergyWise on most models delivers energy savings
- Ease of Use with backlit displays to enhance viewing and navigation, headset and speakerphone support on most models for added flexibility, and ergonomically rounded keys for superior tactile experience

Cisco IP Phone 8800 Series Highlights

- Affordable Entry to HD 720p Video, helping you bring teams closer together for faster decision making
- Enhance Collaboration with advanced VoIP features and crystal-clear audio performance
- Increase Productivity by importing contacts and call history from personal mobile devices to select 8800 Series phones. Even move audio during active calls between these devices!
- Expand Return on Investment with additional line and feature keys available through optional software features and new key expansion modules
- Gain Flexibility with a variety of deployment options, including on-premises, in the cloud with Cisco Spark, or through Cisco preapproved third-party UCaaS providers








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	3900 Series	6900 Series	7800 Series	7900 Series	8800 Series
					
Occasional Use (Common Areas)	●	●	●	-	-
Knowledge Workers (On-Campus)	-	-	●	●	●
Knowledge Workers (Remote)	-	-	●	-	●
Manager, Executives, Administrative Staff, Receptionists	-	-	●	●	●
In-Campus Mobile Workers	-	-	-	-	●
Conference Rooms	-	-	●	-	●
Hospitality Guest Rooms	-	●	●	-	-
HD Video Collaboration	-	-	-	-	●
Bluetooth (mobile device integration, 3rd-party headsets)	-	-	-	-	●
High-Resolution Color Displays	-	-	-	●	●
GE Switch Ports (for co-located PC)	-	-	●	●	●
Cisco Business Edition 4000	-	-	●	-	●
Cisco Spark	-	-	●	-	●
Latest Security Enhancements	-	-	●	-	●
Reduced Power Consumption (PoE Class)	●	●	●	-	-
Cisco Business Edition 4000	-	-	●	-	●
Cisco Spark	-	-	●	-	●

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Cisco IP Phone 7800 Series

Product SKU		Display			Audio			Line Keys	Ethernet Ports			Wireless			Call Control	
Charcoal	White	Resolution	Color	HD Video	Wide band	Speaker phone	Headset Port		FE	GE	PoE Class	Wi-Fi	Blue tooth	DECT	BE4K	Spark
CP-7811-K9= 	-	3.28 inch 384 x 106	-	-	-**	•	-	-	2	-	1	-	-	-	•	•
CP-7821-K9= 	CP-7821-W-K9= 	3.5 inch 396 x 162	-	-	•	•	•	2	2	-	1	-	-	-	•	•
CP-7832-K9= 	CP-7832-W-K9= 	384 x 128	-	-	•	•	-	-	1	-	2	-	-	-	-	•
CP-7841-K9= 	CP-7841-W-K9= 	3.5 inch 396 x 162	-	-	•	•	•	4	-	2	1	-	-	-	•	•
CP-7861-K9= 	CP-7861-W-K9= 	3.5 inch 396 x 162	-	-	•	•	•	16	2	-	1	-	-	-	•	•

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Cisco IP Phone 8800 Series

Product SKU		Display			Audio			Line Keys	Ethernet Ports			Wireless			Call Control	
Charcoal	White	Resolution	Color	HD Video	Wide band	Speaker phone	Headset Port		FE	GE	PoE Class	Wi-Fi	Blue tooth	DECT	BE4K	Spark
CP-8811-K9= 	CP-8811-W-K9= 	5 inch 800 x 480	-	-	•	•	•	5	-	2	2	-	-	-	•	•
CP-8831-x-K9= 	-	3.5 inch 396 x 162	-	-	•	•	-	1	-	1	3	-	-	•	•	-
CP-8841-K9= 	CP-8841-W-K9= 	5 inch 800 x 480	•	-	•	•	•	5	-	2	2	-	-	-	•	•
CP-8845-K9= 	CP-8845-W-K9= 	5 inch 800 x 480	•	•	•	•	•	5	-	2	2	-	•	-	•	•
CP-8851-K9= 	CP-8851-W-K9= 	5 inch 800 x 480	•	-	•	•	•	5	-	2	3	-	•	-	•	•
CP-8861-K9= 	CP-8861-W-K9= 	5 inch 800 x 480	•	-	•	•	•	5	-	2	4	11ac	•	-	•	•
CP-8865-K9= 	CP-8865-W-K9= 	5 inch 800 x 480	•	•	•	•	•	5	-	2	4	11ac	•	-	•	•

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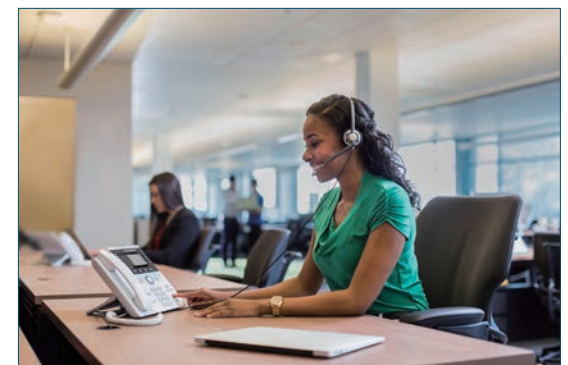
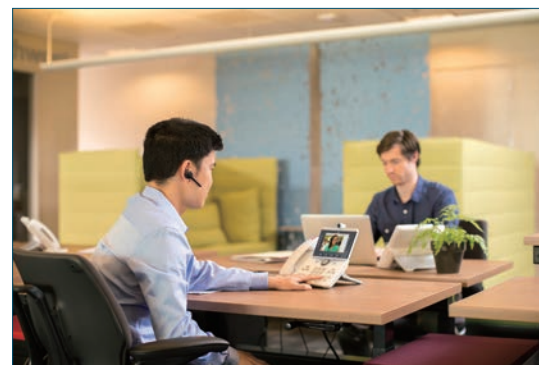
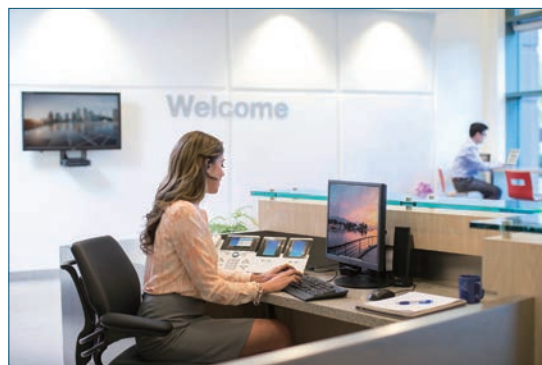
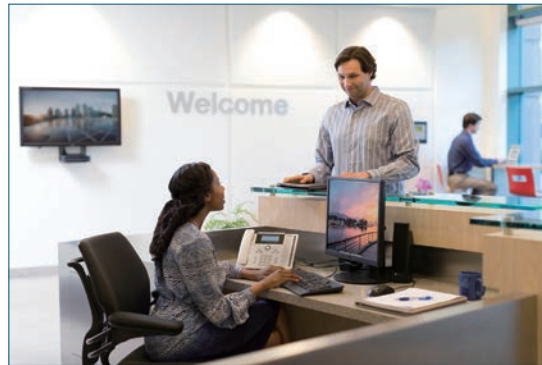


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Cisco SPA300/500 Series IP Phones

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Get Comprehensive Features in an Affordable IP Phone

The **Cisco SPA300/500 Series** is a line of full-featured VoIP (Voice-over-Internet Protocol) phones that provide voice communication over an IP network.

They provide all the features of traditional business phones, such as call forwarding, redialing, speed dialing, transferring calls, conference calling, and accessing voice mail. Calls can be made or received with a handset, a headset, or a speaker.

**Cisco SPA300 Series IP Phones Highlights**

- Wideband audio for voice clarity and enhanced speaker quality
- Monochrome display (SPA303) for ease of use, aesthetics, and on-screen applications
- Direct connection to a hosted IP telephony service or an IP private branch exchange (PBX)
- Support for both Session Initiation Protocol (SIP) and Smart Phone Control Protocol (SPCP)
- Easy installation and highly secure remote provisioning, as well as menu-based and web-based configuration

Cisco SPA500 Series IP Phones Highlights

- Wideband audio for exceptional voice clarity and enhanced speaker quality
- Monochrome backlit display or color display (SPA525G) for ease of use, aesthetics, and onscreen applications
- Direct connection to a hosted IP telephony service or an IP private branch exchange (PBX)
- Support for both Session Initiation Protocol (SIP) and Smart Phone Control Protocol (SPCP)
- Easy installation and highly secure remote provisioning, as well as menu-based and web-based configuration
- Support for up to two SPA 500S or SPA500DS expansion modules

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Cisco SPA300/500 Series IP Phones

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Cisco SPA300 Series IP Phones

Product SKU	Service (CSE) SKU	Display			Audio			Line Keys	Ethernet Ports			Wireless			Call Control	
		Resolution	Color	HD Video	Wide band	Speaker phone	Headset Port		FE	GE	PoE Class	Wi-Fi	Blue tooth	DECT	BE4K	Spark
SPA301-xx 	CON-SMBS-SPA011xx	-	-	-	•	-	-	-	1	-	-	-	-	-	-	-
SPA303-xx 	CON-SMBS-SPA033xx	3 inch 128 x 63	-	-	•	•	•	3	2	-	-	-	-	-	-	-

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Cisco SPA300/500 Series IP Phones

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Cisco SPA500 Series IP Phones

Product SKU	Service (CSE) SKU	Display			Audio			Line Keys	Ethernet Ports			Wireless			Call Control	
		Resolution	Color	HD Video	Wide band	Speaker phone	Headset Port		FE	GE	PoE Class	Wi-Fi	Blue tooth	DECT	BE4K	Spark
 SPA501G CON-SMBS-SPA0101G	-	-	-	-	•	•	•	8	2	-	2	-	-	-	-	-
 SPA502G -	-	3 inch 128 x 64	-	-	•	•	•	-	2	-	2	-	-	-	-	-
 SPA504G -	-	3 inch 128 x 64	-	-	•	•	•	4	2	-	2	-	-	-	-	-
 SPA508G -	-	3 inch 128 x 64	-	-	•	•	•	8	2	-	2	-	-	-	-	-
 SPA509G CON-SMBS-SPA0909G	-	3 inch 128 x 64	-	-	•	•	•	12	-	2	2	-	-	-	-	-
 SPA512G CON-SMBS-SPA1212G	-	3 inch 128 x 64	-	-	•	•	•	-	-	2	2	-	-	-	-	-
 SPA514G -	-	3 inch 128 x 64	-	-	•	•	•	4	2	-	2	-	-	-	-	-
 SPA525G2 CON-SMBS-SPA033xx	-	3.2 inch 320 x 240	•	-	•	•	•	5	2	-	2	11g	•	-	-	-

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All-in-One Desktop Collaboration

The **Cisco DX80** is all-in-one units designed to video-enable small collaboration spaces. This innovative set of multifunction touchscreen device suits people who spend a lot of time collaborating and want a no-compromise experience at their fingertips. Launch lifelike HD video meetings with any

standards-based H.264 AVC device, including smartphones, Cisco TelePresence systems, and Cisco WebEx and Cisco Spark applications. Use it to replace your desktop IP phone. Integrate with your PC for content sharing and much more, all with a single, easy-to-use device.



Highlights

- Dedicated, always-on HD video communication system
- IP phone that provides essential features for knowledge workers
- High-quality audio system for speakerphone
- 23-inch 16:9 screen that provides an engaging experience for video calls
- Multitouch capacitive touchscreen that provides an elegant and powerful user interface
- Self-provisioning device that is simple for users to take out of the box and start using quickly
- Easy “One-Button-To-Push” (OBTP) calling that integrates with common calendaring programs
- Flexible registration models on-premises and in the cloud


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Cisco DX Series

Model	Display			Camera	Video			Audio	GE Ports	Wireless		Call Control		
	Resolution	PC Input	Touch Screen		Resolution	Content Sharing	Standards	Standards		Wi-Fi	Blue tooth	SIP	H.323	Spark
 DX80	23-inch 1,920 x 1,080	Up to 1080p30	●	Integrated Up to 1080p30	Up to 1080p30	Up to 1080p5	H.263 H.263+ H.264 AVC	G.711a G.711mu G.722 G.722.1 G.729 G.729ab AAC-LD OPUS	2	11n	●	●	●	●

Cisco DX80

Product SKU	Description
CS-DX80-K9=	For Spark Registration*1
CP-DX80-K9=	For VCS or Unified CM Registration
CP-DX80-NR-K9=	For VCS or Unified CM Registration (No Radio)

*1 A-SPK-SH-RMS is required.

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Cisco DX80 License

Product SKU ^{*1}	Description
A-SPK-SH-RMS	Spark Registration (Monthly or 1-, 2-, 3-, 4-, or 5-year options)

*1 A-SPK-SH is required.

Cisco DX80 Accessory

Product SKU ^{*1}	Description
CP-DX80-VESA=	Cisco VESA Adapter and Wall Mount Kit



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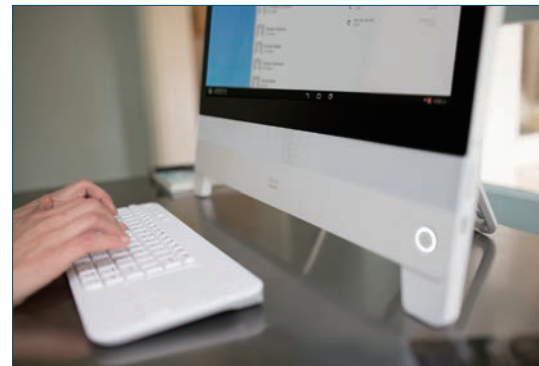
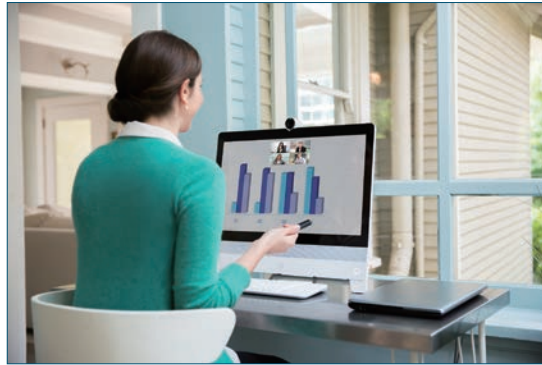
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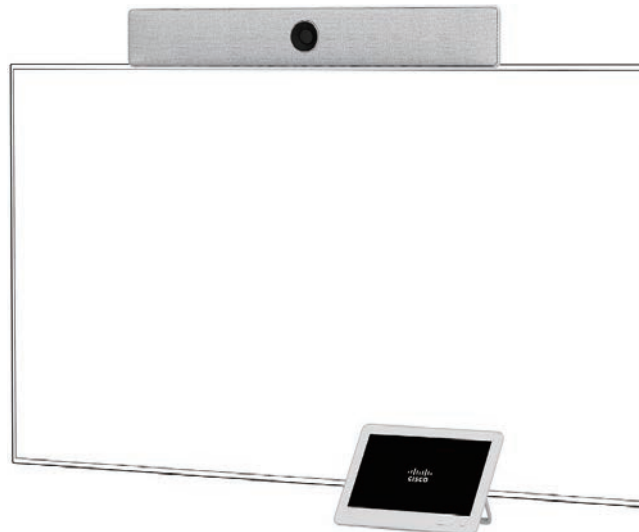
Turn Your Flat Panel Display into a Smart Video Conferencing System

The **Cisco Spark Room Kit Series** is powerful collaboration solutions that integrate with flat panel displays to bring more intelligence and usability to your small to large-sized meeting rooms.

These newest integrator solutions deliver the unmatched video and audio experience that customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentations, and smarter room and device integrations — further removing the barriers to usage and deployment of video collaboration.

Highlights

- **Powerful Collaboration Solutions:** Integrate with flat panel displays to bring more intelligence and usability to your small to large-sized meeting rooms
- **Smart Meetings:** Intelligent, integrated cameras deliver intelligent viewing capabilities, such as automatic framing and speaker tracking (Room Kit & Room Kit Plus)
- **Smart Presentations:** Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations
- **Smart Integrations:** People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions
- **Registration Flexibility:** Built for both on-premises and cloud deployment, protecting your investment



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Cisco Spark Room Kit Series

Model	Camera	Video				Audio Standards	GE Ports			Wireless		Call Control		
		Output Resolution	Input Resolution	Content Sharing	Standards		LAN	Camera	Touch 10	Wi-Fi	Blue tooth	SIP	H.323	Spark
Spark Room Kit 	Integrated Up to 5Kp60	Up to 4Kp60	Up to 4Kp30	Up to 4Kp30 (Local) 4Kp5 (Remote)	H.264 H.265	G.711 G.722 G.722.1 G.729 AAC-LD Opus	1	-	1	11ac	•	•	•	•
Spark Room Kit Plus 	Quad Camera Up to 5Kp60	Up to 4Kp60	Up to 4Kp30	Up to 4Kp30 (Local) 4Kp5 (Remote)	H.264 H.265	G.711 G.722 G.722.1 G.729 AAC-LD Opus	1	1	1	11ac	•	•	•	•
Spark Room Kit Plus Precision 60 <small>NEW</small> 	Precision 60 Up to 5Kp60	Up to 4Kp60	Up to 4Kp30	Up to 4Kp30 (Local) 4Kp5 (Remote)	H.264 H.265	G.711 G.722 G.722.1 G.729 AAC-LD Opus	1	1	1	11ac	•	•	•	•

Cisco Spark Room Kit

Product SKU	Description
CS-KIT-MSRP-K9	For Spark Registration*1
CS-KIT-K9	For VCS or Unified CM Registration
CS-KIT-NR-K9	For VCS or Unified CM Registration (No Radio)

*1 A-SPK-SH-RMK is required.

Cisco Spark Room Kit Plus

Product SKU	Description
CS-KITPLUS-MSRP-K9	For Spark Registration*1
CS-KITPLUS-K9	For VCS or Unified CM Registration
CS-KITPLUS-NR-K9	For VCS or Unified CM Registration (No Radio)

*1 A-SPK-SH-RMK is required.

Cisco Spark Room Kit Plus Precision 60

Product SKU	Description
CS-KITP60-MSRP-K9	For Spark Registration*1
CS-KITP60-K9	For VCS or Unified CM Registration
CS-KITP60-NR-K9	For VCS or Unified CM Registration (No Radio)

*1 A-SPK-SH-RMK is required.

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Cisco Spark Room Series Cameras Comparison: Choose the Room Kit Optimized for Your Space

	Room Kit	Room Kit Plus	Room Kit Plus P60
Sample Scenario			
Zoom	Optimal framing up to 5 m	Optimal framing up to 9 m	Manual framing
Camera Features	Speaker Tracking Best Overview PeopleCount	Speaker Tracking Best Overview PeopleCount	-
Video Resolution	1080p60 ^{*1}	1080p60	1080p60
Speakers	86 dB	90 dB (50 % "louder" than 86 dB)	-
Content Sharing	1 x HDMI input (4Kp30)	2 x HDMI input (4Kp30)	2 x HDMI input (4Kp30)
Microphone	2 x mic input + 1 internal	3 x mic input	3 x mic input

*1 1080p30 with Speaker Tracking enabled.

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Cisco Spark Room Kit Series License

Product SKU*1	Description
A-SPK-SH-RMK	Spark Registration (Monthly or 1-, 2-, 3-, 4-, or 5-year options)

*1 A-SPK-SH is required.

Cisco Spark Room Kit Series Accessories

Product SKU	Description
CTS-MIC-TABL20	Table Microphone 20
CAB-MIC20-EXT	Extension Cable for Table Microphone 20
CTS-MIC-CLNG-G2	Ceiling Microphone
CAB-ETHRSHLD-10M	Shielded Cable for Ceiling Microphone (Non-Plenum Rated)
CAB-2HDMI-1.5M-GR	HDMI 2.0 Second Screen Certified Cable (1.5 m)
CAB-2HDMI-3M-GR	HDMI 2.0 Second Screen Certified Cable (3 m)
CAB-PRES-2HDMI-GR	Presentation Certified Cable (8 m)
CS-KITPLUS-WMK	Wall Mount Kit for Codec Plus

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Best Overview

Automatically detects meeting participants and provides ideal framing



Auto-detects people in room

Speaker Tracking

Detects and switches between active speakers and provides ideal framing



Auto-detects person speaking



Selects best framing



Selects best framing for speaker

People Count

For usage metrics and resource allocation; tight integrations with screens for enhanced functionalities



Auto-counts people in room

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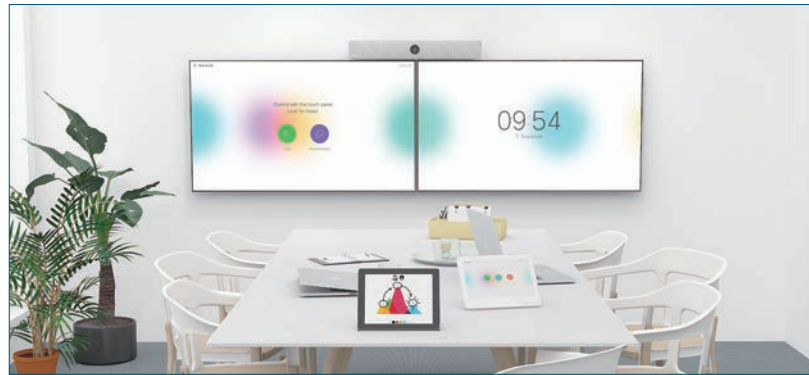
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Face-to-Face Collaboration in Small Workspaces

The **Cisco TelePresence SX10 Quick Set** is an all-in-one unit designed to video-enable your small collaboration spaces, offering great affordability for small-to-medium businesses just starting out with telepresence. With the SX10, you can also extend telepresence pervasively throughout your enterprise. The SX10 supports cloud registration to Cisco Spark Services for even faster and more cost effective deployment

This low-cost, high-quality unit combines camera and codec into a single, compact device that is mounted over your standard flat-panel display and connects through a discreet single-cable system for Power over Ethernet (PoE). High-definition video is enabled with 1080p30 resolution, while an industry-leadership wide-angle field of view provides the best overview even in small spaces. Support for Cisco Intelligent Proximity allows you to use your iOS and Android devices to wirelessly control the SX10 as well as receive shared content for richer collaboration. Wireless content sharing is also possible from your laptop or PC.



Highlights

- Optimal definition up to 1080p30 with content sharing at 1080p5
- Wide-angle 83° horizontal FOV with 5x zoom
- Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from laptops
- Wireless control of the system is also enabled with Cisco Intelligent Proximity
- Easily control room peripherals such as lights, room dividers, curtains, directly from the Cisco TelePresence Touch 10 (optional) through customizable API (requires external third-party control system processor)
- Ready-to-use unit with Power over Ethernet (PoE)
- Integrated microphone
- Energy efficient with low consumption (EU Class B)




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Cisco TelePresence SX Series

Model	Camera	Video				Audio Standards	FE Ports			Wireless		Call Control		
		Output Resolution	Input Resolution	Content Sharing	Standards		LAN	Camera	Touch 10	Wi-Fi	Blue tooth	SIP	H.323	Spark
SX10 Quick Set 	Integrated Up to 1080p30	Up to 1080p60	Up to 1080p30	Up to 1080p5	H.263 H.263+ H.264	G.711 G.711mu G.722 G.722.1 G.729 G.729ab AAC-LD Opus	1*1	-	-	-	-	•	•	•

*1 Powered via 802.3af PoE.

Cisco TelePresence SX10 Quick Set

Product SKU	Description
CS-SX10N-MSRP-K9	For Spark Registration*1
CTS-SX10N-K9	For VCS or Unified CM Registration

*1 A-SPK-SH-RMS is required.

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Cisco TelePresence SX10 Quick Set License

Product SKU ^{*1}	Description
A-SPK-SH-RMS	Spark Registration (Monthly or 1-, 2-, 3-, 4-, or 5-year options)

*1 A-SPK-SH is required.

Cisco TelePresence SX10 Quick Set Accessories

Product SKU	Description
CTS-MIC-TABL20	Table Microphone 20
CAB-PRESO-2HDMI	HDMI to HDMI Presentation Cable (8 m)
CAB-VGA-8M	VGA to VGA Presentation Cable (8 m)
CAB-HDMI-MULT-9M	HDMI to Multi Presentation Cable (9 m)
CS-TOUCH10=	Cisco TelePresence Touch 10 Control Device
CTS-PWR-AIR-INJ5=	Power Injector for Cisco TelePresence Touch 10
BRKT-SX10-SMK	Screen Mount Kit



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All-in-One Device for Team Collaboration

The **Cisco Spark Board**, like no other, is a new team collaboration device that combines **wireless presentation**, **digital whiteboarding**, and **video conferencing**. It is a cloud- and touch-based system that securely connects teams and their content in physical rooms with virtual teams and meeting spaces.

The Cisco Spark Board resides in physical meeting rooms but is connected to the Cisco Spark service to facilitate continuous workflow before and during the meeting, and even after everyone has left the physical room. Through the Cisco Spark app, team members both in the physical conference room and attending remotely can meet, message, call, and white board from anywhere through their Cisco Spark app-enabled device of choice.

Highlights

- **Wireless Presentation:** Share your presentation, locally in the room or remotely, without any need for wires, dongles, adapters, or typing in PIN codes.
- **Digital Whiteboarding:** Easily white board with the Cisco Spark Pen or your finger and automatically save content to a Cisco Spark virtual space; multiple people can white board — in the room or remotely on any Cisco Spark app-enabled device.
- **Video Conferencing:** Make your high-definition video or high-fidelity audio calls directly on the Cisco Spark Board.
- **Continuous Workflow:** Connect the Cisco Spark Board to a virtual Cisco Spark space and your whiteboard creations and other shared documents will live there persistently and securely, to be reviewed and edited by any member of the team from another Cisco Spark Board or any Cisco Spark app-enabled device



reddot design award
best of the best 2017



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Cisco Spark Board

Model	Display			Camera	Video			Audio	GE Ports	Wireless		Call Control		
	Resolution	PC Input	Touch Screen		Resolution	Content Sharing	Standards	Standards		Wi-Fi	Blue tooth	SIP	H.323	Spark
Spark Board 55 	55-inch 1,920 x 1,080	Up to 1080p30	●	Integrated Up to 4Kp60	Up to 1080p30	Up to 1080p30	H.263 H.263+ H.264	G.711 G.722 G.722.1 G.728 G.729 AAC-LD OPUS	1	11ac	●	-	-	●
Spark Board 70 	70-inch 1,920 x 1,080	Up to 1080p30	●	Integrated Up to 4Kp60	Up to 1080p30	Up to 1080p30	H.263 H.263+ H.264	G.711 G.722 G.722.1 G.728 G.729 AAC-LD OPUS	1	11ac	●	-	-	●

Cisco Spark Board 55

Product SKU	Description
SPARK-BOARD55-K9	For Spark Registration*1

*1 A-SPK-SH-ND-BRD is required.

Cisco Spark Board 70

Product SKU	Description
SPARK-BOARD70-K9	For Spark Registration*1

*1 A-SPK-SH-ND-BRD is required.

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Cisco Spark Board License

Product SKU*1	Description
A-SPK-SH-ND-BRD	Spark Registration (Monthly or 1-, 2-, 3-, 4-, or 5-year options)

*1 A-SPK-SH is required.

Cisco Spark Board Accessories

Product SKU	Description
CS-BOARD55-FS	Floor Stand Kit for Spark Board 55
CS-BOARD55-WS	Wall Stand Kit for Spark Board 55
CS-BOARD70-FS	Floor Stand Kit for Spark Board 70
CS-BOARD70-WS	Wall Stand Kit for Spark Board 70



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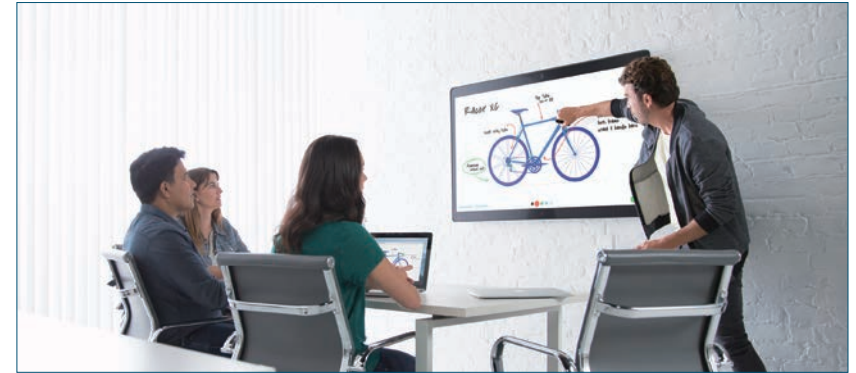
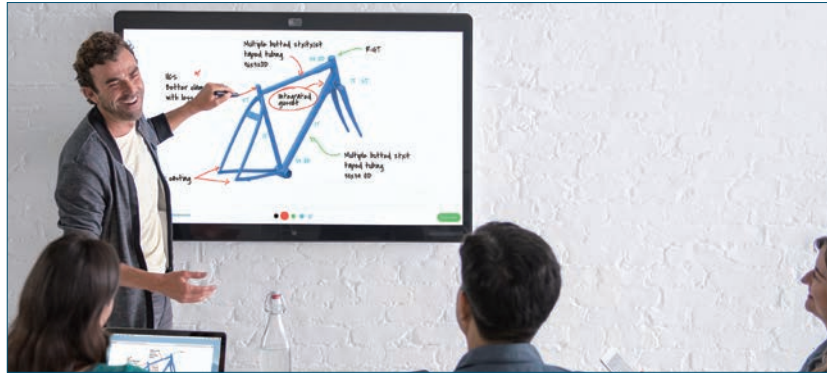
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Cisco Nexus 9348GC-FXP Switch

Delivers Proven High Performance and Density, Low Latency, and Exceptional Power Efficiency in a 1 Rack Unit Form Factor



N9K-C9348GC-FXP

Cloud Scale ASIC	4-Core CPU	24 GB Memory	128 GB SSD	40 MB Buffer	696 Gbps Bandwidth	Over 250 mpps
48-port GE	4-port SFP28	2-port QSFP28				

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Cisco Intersight

Intelligent Cloud-Powered Management for Cisco UCS



FP-AMP-LIC=

- Cloud-based Management
- Manage UCS
- Manage HyperFlex
- Monitoring Server Alerts
- Monitoring Server Health
- User Customizable Dashboard
- Tagging & Basic Search
- Element Managers
- Policy-based Configuration
- Remote Management & vKVM
- Firmware Management
- HCL Compliance Check



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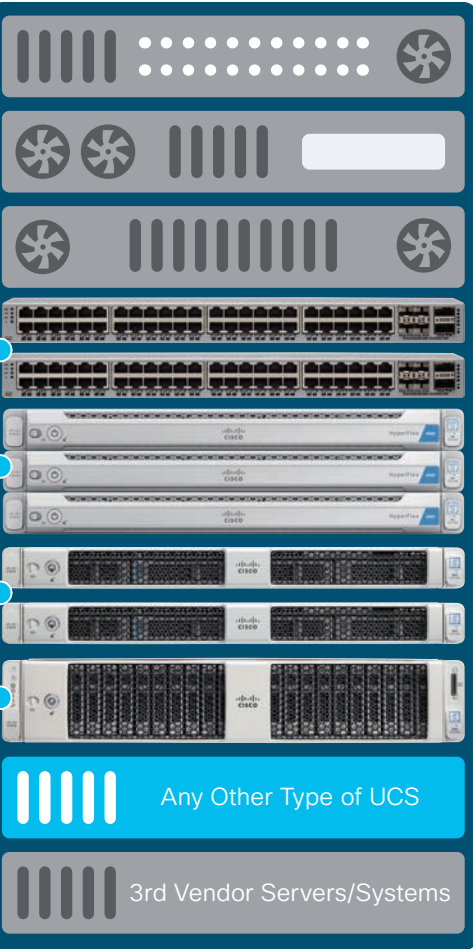
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 Cisco Nexus 9348GC-FXP Switch **NEW**

Cisco HyperFlex HX220c Edge M5

 Cisco UCS C220 M5 Rack Server

 Cisco UCS C240 M5 Rack Server



Cloud Managed Computing

Free Version Available!!



Cisco Intersight



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Superior Multilayered Protection

The **Cisco UCS C-Series Rack Servers** provide a rack-server entry point to Cisco UCS. With world-record-setting performance for 2- and 4-socket servers, Cisco UCS C-Series Rack Servers can integrate into Cisco UCS through a single set of cables. Cisco UCS C-Series Rack Servers provide a wide range of I/O, memory, internal disk, and solid-state disk (SSD) drive capacity, enabling you to easily match servers to workloads.

Highlights: Cisco UCS C-Series M5 Rack Servers

Designed to provide your computing infrastructure now and into the future, **Cisco UCS C-Series M5 Rack Servers** give you the benefits of the latest Intel Xeon Scalable processors:

- **More Cores** to accelerate parallelized virtualized and bare-metal workloads
- **Larger Memory Capacity** for better performance and larger in-memory databases
- **Higher Memory Bandwidth** to accelerate the flow of information to and from the CPU
- **Ready for Intel 3D XPoint nonvolatile memory**
- **Up to 6 PCIe GPU Accelerators** for a smooth user experience in virtual desktop environments
- **Cloud Managed by Cisco Intersight**



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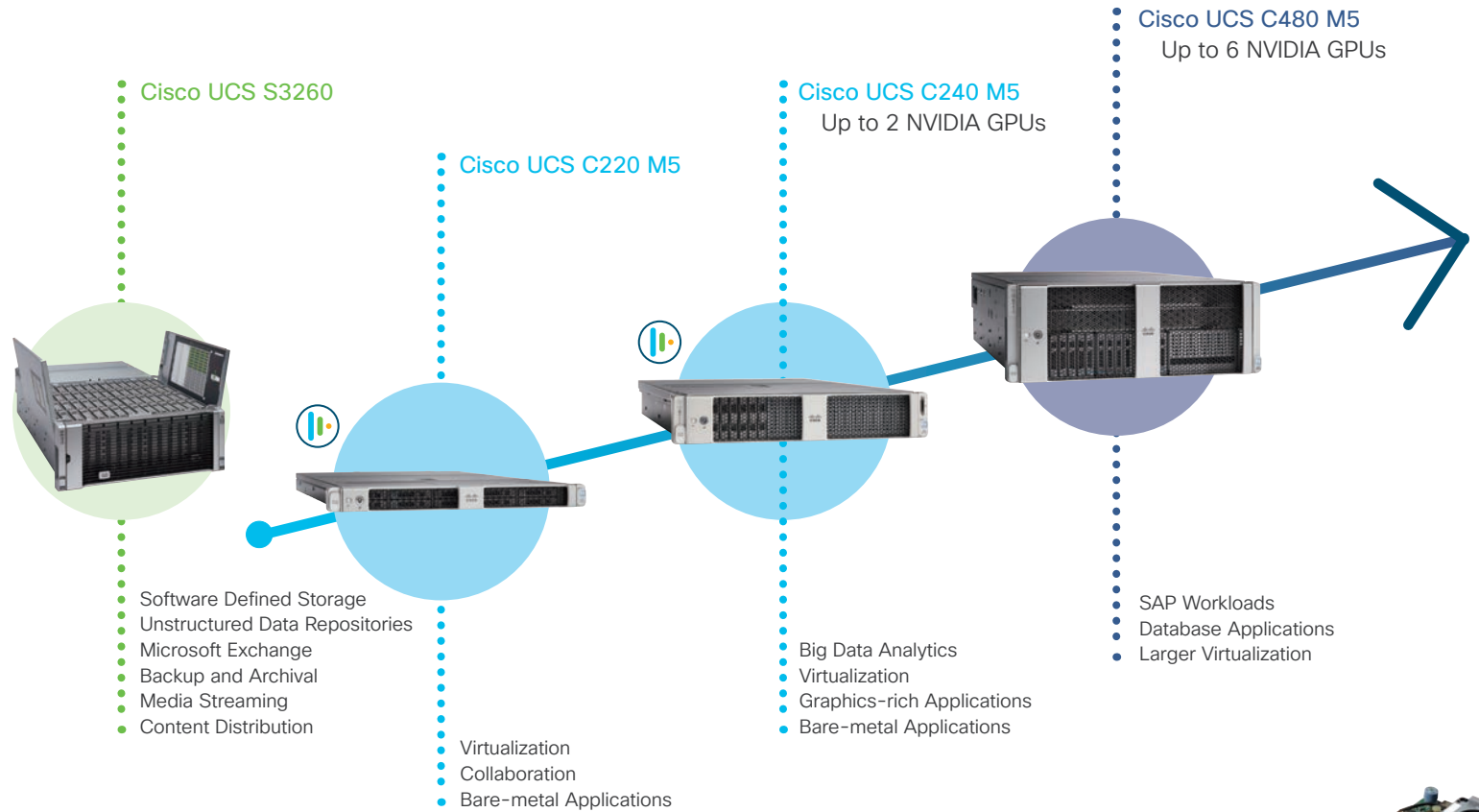
SmartPlay Rack Paks

Why UCS?

Massive Storage Capacity
for Data-intensive Workloads

Performance and Expandability
for Enterprise-class Workloads

Superior Performance
for Mission-Critical Workloads



All models support
Cisco UCS Virtual Interface Card (VIC)
in PCIe or MLOM form factor



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Why UCS?

Cisco UCS C-Series M5 Rack Servers

Product SKU	Processor			Memory		Internal Storage						PCIe Gen3		mLOM Slots	Ports		Rack Mount
	Sockets	Processor Supported	Max Cores per Socket	Slots	Max Memory	2.5 inch SFF Slots	3.5 inch LFF Slots	Max Internal Storage				Slots	Max GPUs		10GB-T	Mgmt GE	
								HDD	SSD	Self-Encrypted HDD/SDD	PCIe NVMe						
UCSC-C220-M5L	2	Intel Xeon Scalable	28	24	3 TB	-	4	48 TB	7.6 TB	24 TB	12.8 TB	2	1	1	2	1	1 RU
UCSC-C220-M5SX	2	Intel Xeon Scalable	28	24	3 TB	10	-	20 TB	76 TB	38 TB	15.2 TB	2	1	1	2	1	1 RU
UCSC-C220-M5SN <small>NEW</small>	2	Intel Xeon Scalable	28	24	3 TB	10	-	-	-	-	76 TB	2	1	1	2	1	1 RU
UCSC-C240-M5S	2	Intel Xeon Scalable	28	24	3 TB	8 + 2	-	20 TB	76 TB	38 TB	76 TB	6	2	1	2	1	2 RU
UCSC-C240-M5L	2	Intel Xeon Scalable	28	24	3 TB	2	12	168 TB	38 TB	79.6 TB	21.6 TB	6	2	1	2	1	2 RU
UCSC-C240-M5SX	2	Intel Xeon Scalable	28	24	3 TB	24 + 2	-	52 TB	197.6 TB	98.8 TB	30.4TB	6	2	1	2	1	2 RU
UCSC-C240-M5SN <small>NEW</small>	2	Intel Xeon Scalable	28	24	3 TB	24 + 2	-	32.0 TB	121.6 TB	60.8 TB	197.6 TB	6	2	1	2	1	2 RU

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Why UCS?

Cisco UCS C220 M5 SFF Rack Server SmartPlay Rack Paks

Product SKU	Bundle					
	Processor	Memory	RAID Controller	PCIe Riser	Additional Storage	Power Supply
UCS-SPR-C220M5-B1	1 x Intel Xeon Bronze 3106 8 Cores, 1.70 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	1 x 770 W AC
UCS-SPR-C220M5-B2	2 x Intel Xeon Bronze 3106 8 Cores, 1.70 GHz, 11 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-S1	1 x Intel® Xeon Silver 4110 8 Cores, 2.10 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	1 x 770 W AC
UCS-SPR-C220M5-S2	2 x Intel® Xeon Silver 4110 8 Cores, 2.10 GHz, 11 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-EP1	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-A1	2 x Intel Xeon Silver 4116 12 Cores, 2.10 GHz, 16.5 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-A2	2 x Intel Xeon Silver 4116 12 Cores, 2.10 GHz, 16.5 MB L3, 85 W	2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-A3	2 x Intel Xeon Gold 5120 14 Cores, 2.20 GHz, 19.25 MB L3, 105 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-C1	2 x Intel Xeon Gold 5120 14 Cores, 2.20 GHz, 19.25 MB L3, 105 W	2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC
UCS-SPR-C220M5-C2	2 x Intel Xeon Gold 6130 16 Cores, 2.10 GHz, 22 MB L3, 125 W	2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 2 GB FBWC	-	32 GB SD Card	2 x 770 W AC

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Why UCS?

Cisco UCS C240 M5 SFF Rack Server SmartPlay Rack Paks

Product SKU	Bundle					
	Processor	Memory	RAID Controller	PCIe Riser	Additional Storage	Power Supply
UCS-SPR-C240M5-B1	1 x Intel Xeon Bronze 3106 8 Cores, 1.70 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCIe Slots (x8, x8, x8)	32 GB SD Card	1 x 1,100 W AC
UCS-SPR-C240M5-S1	1 x Intel® Xeon Silver 4110 8 Cores, 2.10 GHz, 11 MB L3, 85 W	1 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCIe Slots (x8, x8, x8)	32 GB SD Card	2 x 1,100 W AC
UCS-SPR-C240M5-S2	2 x Intel® Xeon Silver 4110 8 Cores, 2.10 GHz, 11 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,100 W AC
UCS-SPR-C240M5-S3	2 x Intel Xeon Silver 4114 10 Cores, 2.20 GHz, 13.75 MB L3, 85 W	2 x 16 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,100 W AC
UCS-SPR-C240M5-A1	1 x Intel Xeon Gold 5120 14 Cores, 2.20 GHz, 19.25 MB L3, 105 W	1 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1B 3 PCIe Slots (x8, x8, x8)	32 GB SD Card	1 x 1,100 W AC
UCS-SPR-C240M5-C1	2 x Intel Xeon Gold 5120 14 Cores, 2.20 GHz, 19.25 MB L3, 105 W	2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,100 W AC
UCS-SPR-C240M5-C2	2 x Intel Xeon Gold 6130 16 Cores, 2.10 GHz, 22 MB L3, 125 W	2 x 32 GB DDR4 2,666 MHz	12G SAS RAID Controller with 4 GB FBWC	Riser Card 1 3 PCIe Slots (x8, x16, x8)	32 GB SD Card	2 x 1,100 W AC

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SmartPlay Rack Paks

Why UCS?

Cisco UCS C220/240 M5 SFF Rack Server SmartPlay Rack Paks Accessories

Product Category	Product SKU	Description	Compatible Models	
			C220 M5 SFF	C240 M5 SFF
DDR4 DIMM	UCS-MR-X16G2RS-H	16 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Dual Rank, x4, 1.2 v	●	●
	UCS-MR-X32G2RS-H	32 GB, DDR4, 2,666 MHz RDIMM, PC4-21300, Dual Rank, x4, 1.2 v	●	●
SSD	UCS-SD150G61X-EV	150 GB, 6G SATA, SFF SSD	●	●
HDD	UCS-HD300G10K12N	300 GB, 12G SAS, 10K RPM, SFF HDD	●	●
	UCS-HD600G10K12N	600 GB, 12G SAS, 10K RPM, SFF HDD	●	●
	UCS-HD1T7K12N	1 TB, 12G SAS, 7.2K RPM, SFF HDD	●	●
	UCS-HD300G15K12N	300 GB, 12G SAS, 15K RPM, SFF HDD	●	●
PCIe	UCSC-PCIE-IRJ45	Intel i350 Quad Port 1 GE Adapter	●	●
	N2XX-AIPCI01	Intel X520 Dual Port 10 GE SFP+ Adapter	●	●
	UCSC-PCIE-C40Q-03	Cisco VIC 1385 Dual Port 40 GE QSFP+, CNA, RDMA	●	●
	UCSC-PCIE-BD32GF	Broadcom LPe32002 Dual-Port 32 GE FC, HBA	●	●
PCIe MLOM	UCSC-MLOM-C40Q-03	Cisco VIC 1387 Dual Port 40 GE QSFP+, CNA, MLOM	●	●
PCIe Riser 2	UCSC-PCI-2A-240M5	Riser Card 2A, 3 x PCIe Slots (x8, x16, x16) Supports GPU	-	●
	UCSC-PCI-2B-240M5	Riser Card 2B, 3 x PCIe Slots (x8, x16, x8) Supports GPU + Rear NVMe	-	●
	UCSC-PCI-2C-240M5	Riser Card 2C, 3 x PCIe Slots (x8, x8, x8) Supports Front + Rear NVMe	-	●

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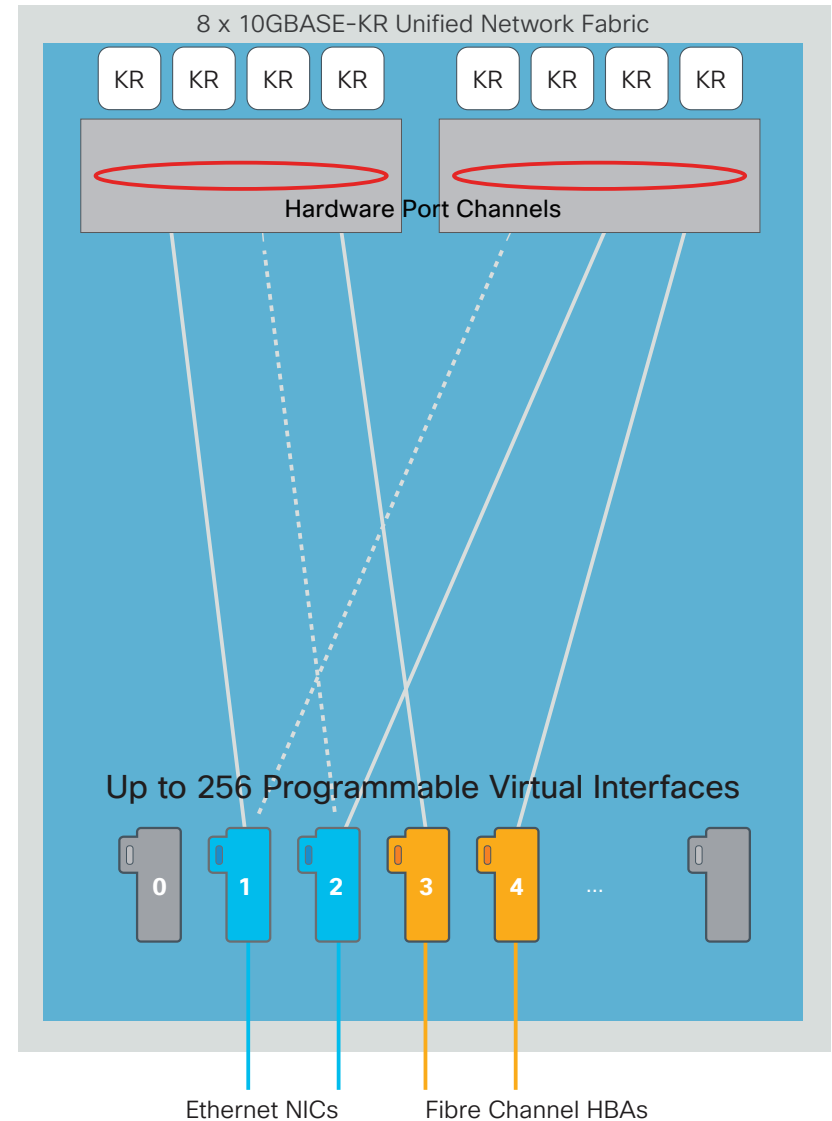
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Powerful and Configurable Networking: Cisco Virtual Interface Cards (VIC)

The **Cisco Virtual Interface Cards (VIC)** is PCIe-compliant interfaces that support up to 256 PCIe devices with dynamically configured type (NIC or HBA), identity [MAC address or worldwide name (WWN)], fabric failover policy, bandwidth, and QoS policy settings. With Cisco VICs, server configuration — including I/O configuration — becomes configurable on demand, making servers stateless resources that can be deployed to meet any workload need at any time, without any physical reconfiguration or recabling required.

Cisco UCS Virtual Interface Card (VIC)

	UCS VIC 1385	UCS VIC 1387
Form Factor	PCIExpress (half height)	Modular LOM
Connectivity	PCIe 3.0 x 16 form factor	PCIe 3.0 x 8 form factor
Network Throughput	80 GB	80 GB
VXLAN/NVGRE	•	•
SMB Direct	•	•
RDMA	•	•
usNIC	•	•



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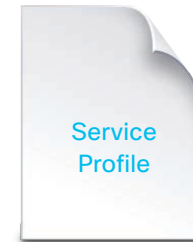
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Ability to Integrate into a Fully Managed Environment: Cisco UCS Manager & Cisco UCS Fabric Interconnects

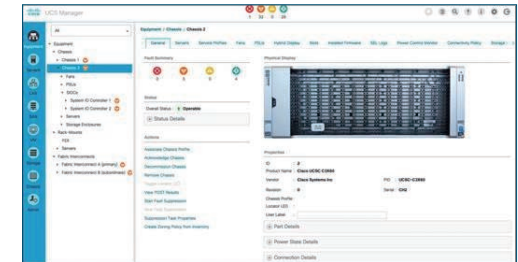
The **Cisco UCS Manager** integrates blade and rack servers into a single self-aware, self-integrating, unified system. It quickly and accurately configures computing, network, storage, and storage-access resources to increase compliance and reduce the chance of errors that can cause downtime. It uses a role- and policy-based approach that helps organizations more easily align policies and configurations with workloads, and it automates system configuration through a “create once, deploy many” approach. Cisco UCS Manager acts as a single point of management and monitoring for the entire system. It is embedded software that runs on the system’s fabric interconnects, typically in a redundant, high-availability configuration. It can be accessed through an intuitive GUI, command-line interface (CLI), or XML API.

The **Cisco UCS Fabric Interconnects** provide a single point of connectivity and management for the entire system. Typically deployed as an active-active pair, the system’s fabric interconnects integrate all components into a single, highly available management domain controlled by Cisco UCS Manager. The fabric interconnects manage all I/O efficiently and securely at a single point, resulting in deterministic I/O latency regardless of a server or virtual machine’s topological location in the system.

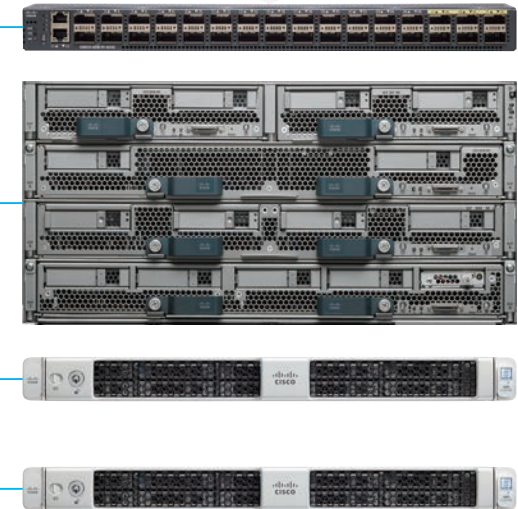
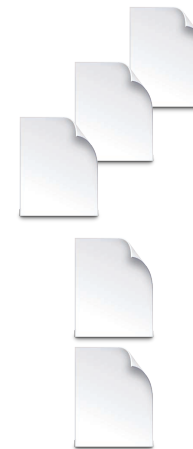
- **Cisco UCS 6200 Series Fabric Interconnects** support line-rate, lossless 10 Gigabit Ethernet and FCoE connectivity
- **Cisco UCS 6200 Series Fabric Interconnects** can be used to create Cisco UCS domains containing blade or rack servers
- **Cisco UCS 6300 Series Fabric Interconnects** support line-rate, lossless 40 Gigabit Ethernet and FCoE connectivity
- **Cisco UCS 6324 Fabric Interconnects** can be used to create a self-contained Cisco UCS Mini solution for branch offices and remote locations



Server Deployment
with Service Profiles
Takes Only Minutes



UCS Manager
Embedded in
UCS Fabric Interconnect



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Gigabit Ethernet ToR Switch with Proven Performance and Density

The **Cisco Nexus 9348GC-FXP Switch** is a 1RU switch that supports 696 Gbps of bandwidth and over 250 mpps. The 48 1GBASE-T downlink ports on the switch can be configured to work as 100-Mbps, 1-Gbps ports. The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the 2 ports of QSFP28 can be configured as 40- and 100-Gbps ports. The Cisco Nexus 9348GC-FXP Switch is ideal for big data customers that require a Gigabit Ethernet ToR switch with local switching.

**Highlights**

- Powered by **Cisco Cloud Scale** ASIC technology
- Support for **Cisco NX OS** Software and **Cisco ACI (Application Centric Infrastructure)** architecture
- High-performance, Layer 2 and 3 non-blocking architecture
- Easily deployed into either a hot-aisle or cold-aisle configuration
- **Cisco Tetration Analytics Platform** support with built-in hardware sensors for rich traffic flow telemetry and line-rate data collection
- **Cisco Nexus Data Broker** support for network traffic monitoring and analysis
- Robust hardware system specifications feature 4-core CPU, 24 GB of system memory, and respectively 128-GB SSD drive
- The 40-MB buffer supporting highly scalable data centers and big data applications
- 696 Gbps of bandwidth and over 250 mpps
- Fixed downlinks with 48 x 1 GE
- Fixed uplinks with 4 x 25 GE SFP28, 2 x 100 GE QSFP28

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Cisco Nexus 9348GC-FXP Switch

Product SKU	System Buffer	Switching Capacity (Bandwidth)	Downlinks	Uplinks		Power Supply				Fan		Rack Mount
			GE	SFP/ SFP+ / SFP28	QSFP+ / QSFP28	Default PS	Dual PS	Port Side Exhaust	Port Side Intake	Port Side Exhaust	Port Side Intake	
N9K-C9348GC-FXP	40 MB	696 Gbps	48	4	2	350 W AC	●	●	●	●	●	1 RU

Cisco Nexus 9348GC-FXP Switch Bundle

Product SKU	Bundle		
	Switch	QSFP+	QSFP28
N9K-C9348-FX-B14Q	2 x N9K-C9348GC-FXP	4 x QSFP-40G-SR-BD	-
N9K-C9348-FX-B24C	2 x N9K-C9348GC-FXP	-	4 x QSFP-100G-SR4-S or QSFP-100G-PSM4-S

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Cisco Nexus 9348GC-FXP Switch Licenses for ACI

Product SKU	Description
ACI-ES-GF	ACI Essentials License
ACI-AD-GF	ACI Advantage License
ACI-SEC-GF	Security License
ACI-STRG	Storage License

Cisco Nexus 9348GC-FXP Switch Licenses for NX-OS

Product SKU	Description
NXOS-ES-GF	NX-OS Essentials License
NXOS-AD-GF	NX-OS Advantage License
NXOS-SEC-GF	Security License
NXOS-STRG-GF	Storage License
NXOS-NDB	Nexus Data Broker License

Cisco Nexus 9348GC-FXP Switch Accessories

Product SKU	Description
NXK-ACC-KIT-2P	Fixed Accessory Kit with 2-Post Rack Mount Kit

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Adaptive Computing with Cloud-Powered Intelligence

The **Cisco Intersight** delivers a new era of computing for Cisco UCS and HyperFlex systems. This adaptive, cloud-powered management platform enables you to be anywhere and act everywhere. It delivers pervasive simplicity at a global level with connected technical support, so daily activities are easier for everyone.

Intersight provides actionable intelligence based on insights gained from analytics and best practices to enable faster, proactive operations. Intersight is an open platform that will be integrated with Cisco and third party tools and infrastructure to enable agile delivery, so IT can empower the business to respond quickly to change.

Highlights

● Pervasive Simplicity

Use a GUI or API to meet the needs of your development teams.

Simplify the user experience with the capability to manage your infrastructure regardless of where it is installed.

● Actionable Intelligence

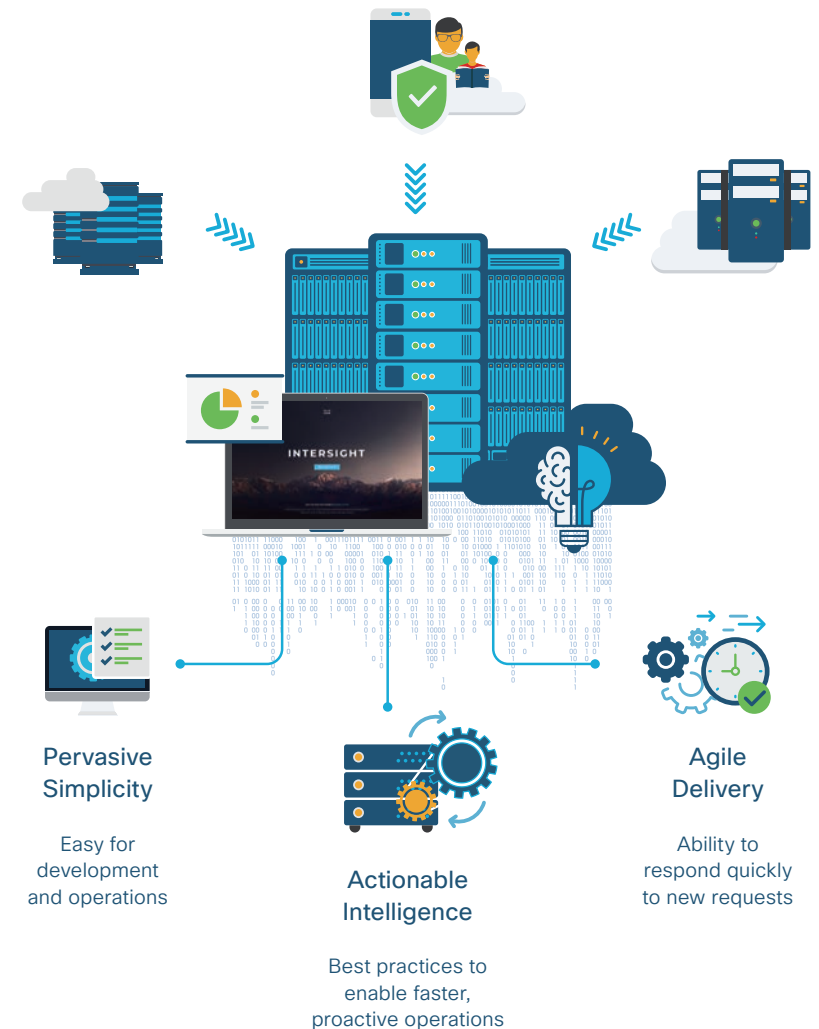
Use best practices to enable faster, proactive operations.

Gain actionable insight for ongoing improvement and problem avoidance.

● Agile Delivery

Respond quickly to new requests and manage the unpredictable.

Deploy edge clusters as quickly as you deploy virtual machines in your data center.



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Cisco Intersight Editions (Licenses)

The **Cisco Intersight** uses a subscription-based license with multiple editions. Customers can purchase a Subscription duration of one, three, or five years and choose the Cisco UCS server volume tier they need for the selected subscription duration.

Each Cisco UCS server or Cisco HyperFlex system automatically includes a **Cisco Intersight Base** edition at **no additional cost** when the customer accesses the Cisco Intersight portal and claims the device. In addition, customers can purchase the **Cisco Intersight Essentials** edition using the Cisco ordering tool.

● Base

The Cisco Intersight Base offering is available at no cost to customers with platforms enabled to support Cisco Intersight. Enabled platforms are those **Cisco UCS** and **Cisco HyperFlex** systems with a **Cisco Intersight device connector**, including eligible **Cisco UCS Manager**, **Cisco IMC**, and **Cisco HyperFlex** software.

Cisco Intersight Base provides access to a portal that delivers centralized monitoring and basic inventory of managed systems, organizational capabilities including tagging and search, and the capability to launch native endpoint management interfaces including Cisco UCS Manager.

● Essentials

The Cisco Intersight Essentials offering builds on the functions provided in the Base edition. It includes centralized setup and configuration capabilities through a policy engine, firmware management, compliance tool integration, and other features.

Cisco Intersight Essentials enables customers to centralize configuration management through a unified policy engine, determine compliance with the Cisco UCS Hardware Compatibility List (HCL), and initiate firmware updates. The Essentials edition provides a single interface for monitoring, management, and operations, with the capability to launch the virtual keyboard, video, and mouse (vKVM) console directly from Cisco Intersight.

Editions	Base	Essentials
Product SKU ^{*1}	-	DC-MGT-SAAS-EST-C
Free version, supports Cisco UCS and HyperFlex	●	●
Global monitoring of health and inventory status	●	●
User customizable dashboard	●	●
Tagging and basic search	●	●
Context launch of element managers	●	●
Policy-based configuration with service profiles	-	●
Remote management and vKVM	-	●
Firmware management with scheduled updates	-	●
HCL compliance check and upgrade recommendations	-	●

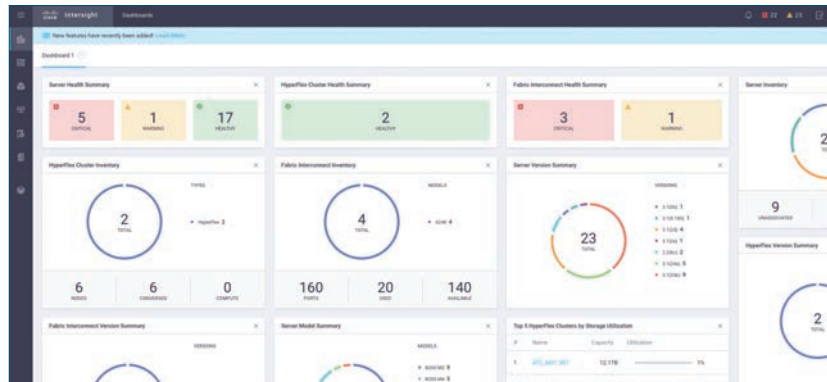
*1 DC-MGT-SAAS is required.

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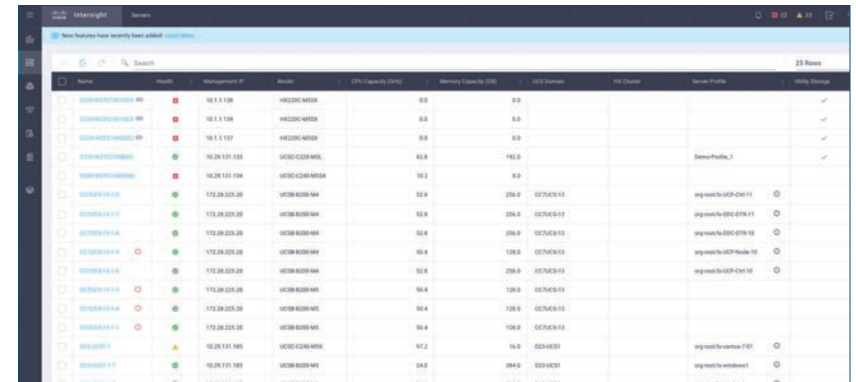
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Gallery

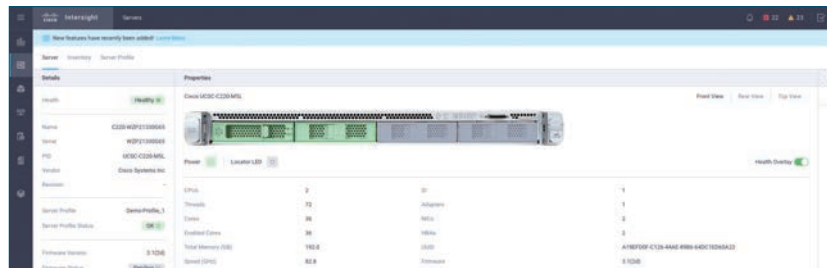
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- Customizable dashboard to show overall faults/health/inventory for all managed infrastructure
- Can create unique dashboards for individual Intersight users
- Can add/remove widgets as desired
- Can click on various widgets for more detailed information



- Main server tab shows all servers managed by Cisco Intersight, and provides basic Health/Model/IP information
- Desired column details can be added/removed as user sees fit
- Clicking on any server name dials in to that server – detailed server overview/inventory information



- Server name, model, serial number, and other basic properties are displayed
- Health overlay for front/back/top views can be turned on/off as needed
- Alarms/faults visible on right hand side
- Server actions available as well — IMC cross-launch, vKVM, power operations, tagging



- Detailed information for all server peripherals — CPUs, memory, adapters, storage, etc.
- Can dial in to specific peripheral for additional component information
- Server actions tab available here as well

Featured Products



Cisco Firepower 2100 Series

Gain Business Resiliency through Superior Security with Threat-Focused Next-Generation Firewall



FPR2110-NGFW-K9

Dual Multicore CPU	2 Gbps FW + AVC Throughput	2 Gbps AVC + IPS Throughput	750 Mbps VPN Throughput	1,500 VPN Peers	Default AVC	Optional NGIPS	Optional AMP	Optional URL Filtering
12-port GE	4-port SFP	Firepower Device Manager						

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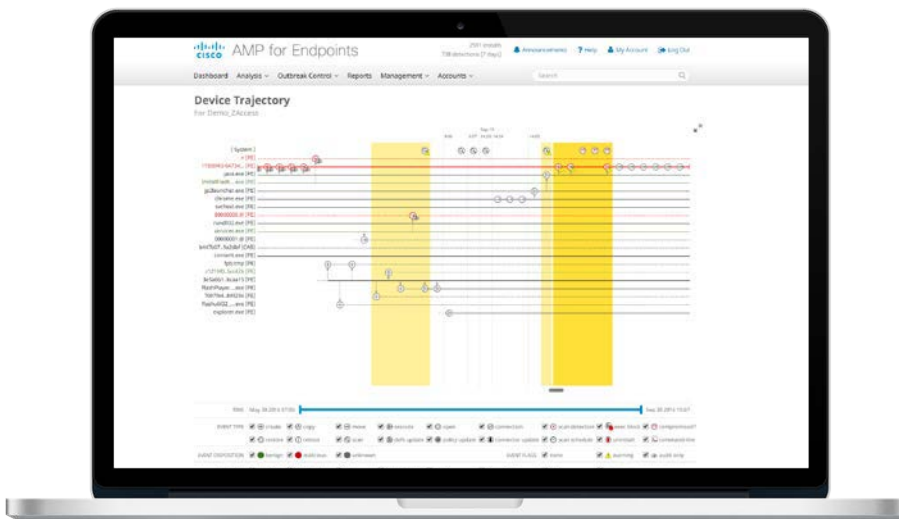
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Featured Products

Cisco Advanced Malware Protection for Endpoints

Replace Your Legacy Anti-Virus with Next-Generation Endpoint Security



FP-AMP-LIC=

- Powered by Talos
- 1.6 million Global Sensors
- 1.5 million Samples per Day
- 100 TB Data per Day
- 13 Billion Web Requests
- 24-Hour Operations
- Windows
- macOS
- Linux Red Hat Enterprise
- Linux CentOS
- Android
- iOS

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Cisco Meraki MX Cloud Managed Security Appliances

Comprehensive Security in a Single Box
Secure a Site in Minutes, Right Out of the Box



MX84-HW

500 Mbps FW Throughput	320 Mbps Adv. Security Throughput	250 Mbps VPN Throughput	100 VPN Peers	1 TB Web Caching
Default AVC	Optional NGIPS	Optional AMP	Optional URL Filtering	
2-port GE-WAN	8-port GE-LAN	2-port SFP-LAN	USB for 4G	

MX65W-HW

250 Mbps FW Throughput	200 Mbps Adv. Security Throughput	100 Mbps VPN Throughput	50 VPN Peers	
Default AVC	Optional NGIPS	Optional AMP	Optional URL Filtering	
2-port GE-WAN	8-port GE-LAN	2-port GE-LAN PoE+	11ac Wave 2 AP	USB for 4G

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Superior Multilayered Protection

The **Cisco ASA 5500-X Series** is not only the world's most widely deployed, enterprise-class stateful firewall, but also the industry's first adaptive, threat-focused Next-Generation Firewall (NGFW). It provides comprehensive protection from known and advanced threats, including protection against targeted and persistent malware attacks.

With Cisco ASA, you consolidate multiple security layers in a single platform, eliminating the cost of buying and managing multiple solutions. This integrated approach combines best-in-class security technology with multilayer protection integrated in a single device that's less costly than piecemeal security solutions.



Highlights

- **Site-to-site and remote access VPN** and advanced clustering provide highly secure, high-performance access and high availability to help ensure business continuity.
- **Granular Application Visibility and Control (AVC)** supports more than 3,000 application-layer and risk-based controls that can launch tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.
- The industry-leading **Cisco Firepower Next-Generation IPS (NGIPS)** provides highly effective threat prevention and full contextual awareness of users, infrastructure, applications, and content to detect multivector threats and automate defense response.
- **Cisco Advanced Malware Protection (AMP)** provides industry-leading breach detection effectiveness, sandboxing, a low total cost of ownership, and superior protection value that helps you discover, understand, and stop malware and emerging threats missed by other security layers.
- **Reputation- and category-based URL Filtering** offer comprehensive alerting and control over suspicious web traffic and enforce policies on hundreds of millions of URLs in more than 80 categories.



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Product SKU	Service (CSE) SKU	Throughput			AVC Sessions		VPN Peers	GE Ports	11n Wireless AP	Power Supply	Fanless	Rack Mount
		FW AVC	FW AVC IPS	VPN	Concurrent Sessions	New Connections per Second						
ASA5506-FTD-K9	CON-SMBS-ASAK506F	250 Mbps	125 Mbps	100 Mbps	20,000	3,000	50	8	-	External	●	- ^{*1}
ASA5506W-x-FTD-K9	CON-SMBS-ASAxxxxW	250 Mbps	125 Mbps	100 Mbps	20,000	3,000	50	8	●	External	●	- ^{*1}
ASA5506H-FTD-K9	CON-SMBS-ASAD506H	250 Mbps	125 Mbps	100 Mbps	20,000	3,000	50	4	-	External	●	- ^{*2}
ASA5508-FTD-K9	CON-SMBS-ASD5508F	450 Mbps	250 Mbps	175 Mbps	100,000	7,000	100	8	-	External	-	1 RU
ASA5516-FTD-K9	CON-SMBS-ASA5K16F	850 Mbps	450 Mbps	250 Mbps	250,000	8,000	300	8	-	External	-	1 RU

*1 Rack Mount Kit (ASA5506-RACK-MNT=) is required. Optional Wall Mount Kit (ASA5506-WALL-MNT=) is available.

*2 Rack Mount Kit (ASA5506-RACK-MNT=) is required. Optional Wall Mount Kit (ASA5506-WALL-MNT=) and DIN Rail Mount Kit (ASA5506H-DIN-MNT=) are available.

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Cisco Firepower Threat Defense Software Image & Licenses

The Cisco ASA 5500-X Series ships with the [Cisco Firepower Threat Defense](#) software image. It includes [Application Visibility and Control \(AVC\)](#), and optional [Next-Generation IPS \(NGIPS\)](#), [Cisco Advanced Malware Protection \(AMP\) for Networks](#), and [URL Filtering](#).

● Application Visibility and Control (AVC)

Supports more than 3,000 application-layer and risk-based controls that can launch tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.

One-year, 3-year, and 5-year subscriptions below are available.

● Next-Generation IPS (NGIPS)

Provides highly effective threat prevention and full contextual awareness of users, infrastructure, applications, and content to detect multivector threats and automate defense response. The NGIPS licenses can be added alone to the base licenses, or bundled with AMP, or with AMP and URL licenses.

● Cisco Advanced Malware Protection (AMP) for Networks

Delivers inline network protection against sophisticated malware and Cisco Threat Grid sandboxing. The AMP licenses can be added alone to the base licenses, or bundled with NGIPS, or with NGIPS and URL licenses.

● URL Filtering (URL)

Adds the capability to filter more than 280 million top-level domains by risk

level and more than 82 categories. The URL licenses can be added alone to the base licenses, or bundled with NGIPS, or with NGIPS and AMP licenses.

Cisco Firepower Threat Defense License Comparison

Licenses	Characters Included in Product SKU	Next-Generation IPS (NGIPS)	Advanced Malware Protection (AMP)	URL Filtering (URL)
NGIPS License	T	●	-	-
AMP License	AMP	-	●	-
URL License	URL	-	-	●
NGIPS & AMP License	TM	●	●	-
NGIPS & URL License	TC	●	-	●
NGIPS & AMP & URL License	TMC	●	●	●

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Cisco Firepower Threat Defense NGIPS Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-T-1Y	L-ASA5506T-T-3Y	L-ASA5506T-T-5Y	ASA 5506
L-ASA5506WT-T-1Y	L-ASA5506WT-T-3Y	L-ASA5506WT-T-5Y	ASA 5506W
L-ASA5506HT-T-1Y	L-ASA5506HT-T-3Y	L-ASA5506HT-T-5Y	ASA 5506H
L-ASA5508T-T-1Y	L-ASA5508T-T-3Y	L-ASA5508T-T-5Y	ASA 5508
L-ASA5516T-T-1Y	L-ASA5516T-T-3Y	L-ASA5516T-T-5Y	ASA 5516

*1 L-ASAxxxxT-T= is required (The "xxxx" corresponds to the supported models).

Cisco Firepower Threat Defense AMP Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-AMP-1Y	L-ASA5506T-AMP-3Y	L-ASA5506T-AMP-5Y	ASA 5506
L-ASA5506WT-AMP-1Y	L-ASA5506WT-AMP-3Y	L-ASA5506WT-AMP-5Y	ASA 5506W
L-ASA5506HT-AMP-1Y	L-ASA5506HT-AMP-3Y	L-ASA5506HT-AMP-5Y	ASA 5506H
L-ASA5508T-AMP-1Y	L-ASA5508T-AMP-3Y	L-ASA5508T-AMP-5Y	ASA 5508
L-ASA5516T-AMP-1Y	L-ASA5516T-AMP-3Y	L-ASA5516T-AMP-5Y	ASA 5516

*1 L-ASAxxxxT-AMP= is required (The "xxxx" corresponds to the supported models).

Cisco Firepower Threat Defense URL Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-URL-1Y	L-ASA5506T-URL-3Y	L-ASA5506T-URL-5Y	ASA 5506
L-ASA5506WT-URL-1Y	L-ASA5506WT-URL-3Y	L-ASA5506WT-URL-5Y	ASA 5506W
L-ASA5506HT-URL-1Y	L-ASA5506HT-URL-3Y	L-ASA5506HT-URL-5Y	ASA 5506H
L-ASA5508T-URL-1Y	L-ASA5508T-URL-3Y	L-ASA5508T-URL-5Y	ASA 5508
L-ASA5516T-URL-1Y	L-ASA5516T-URL-3Y	L-ASA5516T-URL-5Y	ASA 5516

*1 L-ASAxxxxT-URL= is required (The "xxxx" corresponds to the supported models).



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Cisco Firepower Threat Defense NGIPS & AMP Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-TM-1Y	L-ASA5506T-TM-3Y	L-ASA5506T-TM-5Y	ASA 5506
L-ASA5506WT-TM-1Y	L-ASA5506WT-TM-3Y	L-ASA5506WT-TM-5Y	ASA 5506W
L-ASA5506HT-TM-1Y	L-ASA5506HT-TM-3Y	L-ASA5506HT-TM-5Y	ASA 5506H
L-ASA5508T-TM-1Y	L-ASA5508T-TM-3Y	L-ASA5508T-TM-5Y	ASA 5508
L-ASA5516T-TM-1Y	L-ASA5516T-TM-3Y	L-ASA5516T-TM-5Y	ASA 5516

*1 L-ASAxxxxT-TM= is required (The "xxxx" corresponds to the supported models).

Cisco Firepower Threat Defense NGIPS & URL Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-TC-1Y	L-ASA5506T-TC-3Y	L-ASA5506T-TC-5Y	ASA 5506
L-ASA5506WT-TC-1Y	L-ASA5506WT-TC-3Y	L-ASA5506WT-TC-5Y	ASA 5506W
L-ASA5506HT-TC-1Y	L-ASA5506HT-TC-3Y	L-ASA5506HT-TC-5Y	ASA 5506H
L-ASA5508T-TC-1Y	L-ASA5508T-TC-3Y	L-ASA5508T-TC-5Y	ASA 5508
L-ASA5516T-TC-1Y	L-ASA5516T-TC-3Y	L-ASA5516T-TC-5Y	ASA 5516

*1 L-ASAxxxxT-TC= is required (The "xxxx" corresponds to the supported models).

Cisco Firepower Threat Defense NGIPS & AMP & URL Licenses for Cisco ASA 5500-X Series

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-ASA5506T-TMC-1Y	L-ASA5506T-TMC-3Y	L-ASA5506T-TMC-5Y	ASA 5506
L-ASA5506WT-TMC-1Y	L-ASA5506WT-TMC-3Y	L-ASA5506WT-TMC-5Y	ASA 5506W
L-ASA5506HT-TMC-1Y	L-ASA5506HT-TMC-3Y	L-ASA5506HT-TMC-5Y	ASA 5506H
L-ASA5508T-TMC-1Y	L-ASA5508T-TMC-3Y	L-ASA5508T-TMC-5Y	ASA 5508
L-ASA5516T-TMC-1Y	L-ASA5516T-TMC-3Y	L-ASA5516T-TMC-5Y	ASA 5516

*1 L-ASAxxxxT-TMC= is required (The "xxxx" corresponds to the supported models).



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Business Resiliency through Superior Threat Defense

The **Cisco Firepower 2100 Series** is the industry's first fully integrated, threat-focused Next-Generation FireWall (NGFW) with unified management. It delivers business resiliency through superior security with sustained performance — provides sustained network performance when threat inspection features are activated to keep your business running securely. And It is now simpler to manage for improved IT efficiency and a lower total cost of ownership.

The Firepower 2100 NGFWs sustain its throughput performance as threat services are added. They do this by uniquely incorporating an innovative dual multi-core CPU architecture that optimizes firewall, cryptographic, and threat inspection functions simultaneously. They won't become a network bottleneck or lose effectiveness like competitors when threat inspection is turned on. Now, achieving security doesn't come at the expense of network performance.



Highlights

- **Stop more threats:** Contain known and unknown malware with leading Cisco AMP and sandboxing.
- **Gain more insight:** Gain superior visibility into your environment with Cisco Firepower NGIPS. Automated risk rankings and impact flags identify priorities for your team.
- **Detect earlier, act faster:** The Cisco Annual Security Report identifies a 100-day median time from infection to detection, across enterprises. Cisco reduces this time to less than a day.
- **Reduce complexity:** Get unified management and automated threat correlation across tightly integrated security functions, including application firewalling, NGIPS, and AMP.
- **Get more from your network:** Enhance security, and take advantage of your existing investments, with optional integration of other Cisco and third-party networking and security solutions.

Cisco Firepower 2100 Series



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Firepower 9300



Firepower 4100 Series



Firepower 2140



Firepower 2130



Firepower 2120



Firepower 2110

Throughput

→ High

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Product SKU	Service (CSE) SKU	Throughput			AVC Sessions		VPN Peers	Ports		Power Supply	Rack Mount
		FW AVC	FW AVC IPS	VPN	Concurrent Sessions	New Connections per Second		GE	SFP		
FPR2110-NGFW-K9	-	2 Gbps	2 Gbps	250 Mbps	1,000,000	12,000	1,500	12	4	Internal	1 RU

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Cisco Firepower Threat Defense NGIPS Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-T-1Y	L-FPR2110T-T-3Y	L-FPR2110T-T-5Y	Firepower 2110

*1 L-FPR2110T-T= is required.

Cisco Firepower Threat Defense AMP Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-AMP-1Y	L-FPR2110T-AMP-3Y	L-FPR2110T-AMP-5Y	Firepower 2110

*1 L-FPR2110T-AMP= is required.

Cisco Firepower Threat Defense URL Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-URL-1Y	L-FPR2110T-URL-3Y	L-FPR2110T-URL-5Y	Firepower 2110

*1 L-FPR2110T-URL= is required.

Cisco Firepower Threat Defense NGIPS & AMP Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-TM-1Y	L-FPR2110T-TM-3Y	L-FPR2110T-TM-5Y	Firepower 2110

*1 L-FPR2110T-TM= is required.

Cisco Firepower Threat Defense NGIPS & URL Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-TC-1Y	L-FPR2110T-TC-3Y	L-FPR2110T-TC-5Y	Firepower 2110

*1 L-FPR2110T-TC= is required.

Cisco Firepower Threat Defense NGIPS & AMP & URL Licenses for Cisco Firepower 2110

Product SKU ^{*1}			Compatible Models
1-Year	3-Years	5-Years	
L-FPR2110T-TMC-1Y	L-FPR2110T-TMC-3Y	L-FPR2110T-TMC-5Y	Firepower 2110

*1 L-FPR2110T-TMC= is required.

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Easy to Use, Highly Secure, Much More than a VPN

The industry-leading **Cisco AnyConnect Secure Mobility Client** is a modular endpoint software product. It not only provides VPN access through Secure Sockets Layer (SSL) and IPsec IKEv2 but also offers enhanced security through various built-in modules. These modules provide services such as compliance through the VPN with Cisco ASA or through wired, wireless, and VPN with Cisco Identity Services Engine (ISE), web security along side Cisco Cloud Web Security (CWS), network visibility into endpoint flows within Cisco Stealthwatch, or off-network roaming protection with Cisco Umbrella.

Cisco AnyConnect clients are available across a broad set of platforms, including Windows, macOS, Linux, iOS, Android, Windows Phone/Mobile, BlackBerry, and ChromeOS.



AnyConnect Features



Integration with Other Cisco Solutions



ASA

ISR/RV

ASR/CSR

ISE

CWS/WSA

Catalyst/WC

NetFlow Collectors

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Cisco AnyConnect Secure Mobility Client



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Feature	Description
Unified Endpoint Compliance	The Cisco AnyConnect ISE Posture Module in Cisco ISE deployments provides unified endpoint posture checks and automated remediation across wired, wireless, and VPN environments. This module serves as the main source of endpoint posture checking for OS levels, latest antivirus/spyware/malware updates, application and hardware inventory and other endpoint checks to determine compliance state and strengthen endpoint security. For VPN only environments, the Cisco ASA provides endpoint posture using Cisco AnyConnect Hostscan Module.
Highly Secure Network Access	The Cisco AnyConnect Network Access Manager provides superior connectivity features. Administrators can control which networks or resources for endpoints to connect. It provides an IEEE 802.1X supplicant that can be provisioned as part of authentication, authorization, and accounting (AAA) capabilities along with some unique encryption technologies such as MACsec IEEE 802.1AE.
Web Security	A built-in Cisco AnyConnect module implements web security either through the on-premise Cisco Web Security Appliance (WSA) or the cloud-based Cisco Cloud Web Security (CWS) offering. Combining web security with VPN access, administrators can provide comprehensive, highly secure mobility to all end users, which is vital for bring-your-own-device (BYOD) deployments. Enterprises have a choice of deployments to defend the network against web malware and to control and safeguard web usage.
Network Visibility	The Cisco AnyConnect Network Visibility Module on Windows, macOS, Linux, and Samsung Knox-enabled devices gives administrators the ability to monitor endpoint application usage to uncover potential behavior anomalies and to make more informed network design decisions. Usage data can be shared with NetFlow analysis tools such as Cisco Stealthwatch.
Off-Network Protection (DNS-Layer Security)	Cisco Umbrella Roaming is a cloud-delivered security service that protects devices when they are off the corporate network. Whether users turn off the VPN or forget to turn it on, Umbrella Roaming enforces security at the DNS layer to protect against malware, phishing, and command-and-control callbacks over any port or protocol.
Mobile Device Support	Administrators need to support end-user productivity by providing personal mobile devices with remote access to the company network. Cisco AnyConnect services can be deployed on the most popular devices used by today's diverse workforce. Highly secure remote access can either be device-based or through select per-application VPN, which eliminates unapproved applications from accessing confidential business resources further reducing malware intrusion risks and bandwidth costs for remote access.
Servers and Platforms	Cisco AnyConnect services are used in conjunction with numerous Cisco head server platforms, including but not limited to the Cisco ASA (physical and virtual), Cisco Firepower Next-Generation Firewalls (physical and virtual/ASA and FTD operating systems), Cisco Identity Services Engine (ISE), Cisco Aggregation Services Routers (ASR), Cisco Cloud Web Security (CWS), and Cisco IOS software on Cisco ISR. Headend termination devices and cloud services, along with the associated service costs and support contracts, are purchased separately.

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Cisco AnyConnect Licenses

The Cisco AnyConnect offers simplified licensing to meet the needs of the broad enterprise IT community as it adapts to growing end-user mobility demands. The current AnyConnect 4.x collapses the formerly complex AnyConnect licensing model into two simple tiers: the first is AnyConnect Plus and the second is AnyConnect Apex.

Cisco AnyConnect Plus License

Includes basic VPN services such as device and per-application VPN (including third-party IKEv2 remote access VPN headend support), trusted network detection, basic device context collection, and Federal Information Processing Standards (FIPS) compliance. AnyConnect Plus also includes other non-VPN services such as the AnyConnect Network Access Manager 802.1X supplicant, the Cisco Cloud Web Security (CWS) module, and the Cisco Umbrella Roaming module. Existing AnyConnect customers should think of AnyConnect Plus as similar to the previous AnyConnect Essentials.

Cisco AnyConnect Apex License

Includes more advanced services such as endpoint posture checks (Hostscan through ASA VPN, or ISE Posture through the Cisco Identity Services Engine), network visibility, next-generation VPN encryption (including Suite B), and clientless remote access VPN as well as all the capabilities of AnyConnect Plus. Existing AnyConnect customers should think of AnyConnect Apex as similar to previous AnyConnect Premium and Premium Shared Licenses.

AnyConnect Plus and Apex licenses offer a set of features and deployment flexibility to meet a wide range of your enterprise's requirements. For enterprises that want only AnyConnect for remote access use cases, there is also the **Cisco AnyConnect VPN Only License**.

Cisco AnyConnect Plus & Apex License Comparison

	Plus	Apex
Device or System VPN (Including Cisco Phone VPN)	●	●
Third-Party IPsec IKEv2 Remote Access VPN Clients (Non-AnyConnect Client)	●	●
Per-Application VPN	●	●
Cloud Web Security and Web Security Appliance	●	●
Cisco Umbrella Roaming ^{*1}	●	●
Network Access Manager	●	●
AMP for Endpoints Enabler ^{*2}	●	●
Network Visibility Module	-	●
Unified Endpoint Compliance and Remediation (Posture) ^{*3}	-	●
Suite B or Next-Generation Encryption (Including Third-Party IPsec IKEv2 Remote VPN Clients)	-	●
Clientless (Browser-based) VPN Connectivity	-	●
ASA Multicontext-mode Remote Access	-	●
SAML authentication ^{*4}	-	●

*1 Cisco Umbrella Roaming License is required.

*2 Cisco AMP for Endpoints License is required.

*3 Cisco ISE Apex License is required.

*4 Cisco ASA 9.7.1 or later is required.

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Cisco AnyConnect Plus Licenses

Product SKU ^{*1 *2}			User Range
1-Year	3-Years	5-Years	
L-AC-PLS-1Y-S1	L-AC-PLS-3Y-S1	L-AC-PLS-5Y-S1	25 to 99
L-AC-PLS-1Y-S2	L-AC-PLS-3Y-S2	L-AC-PLS-5Y-S2	100 to 249
L-AC-PLS-1Y-S3	L-AC-PLS-3Y-S3	L-AC-PLS-5Y-S3	250 to 499

*1 Refer to the Ordering Guide for a full list of SKUs supporting over 500 users.

*2 L-AC-PLS-LIC= is required.

Product SKU ^{*1 *2}	Users
Perpetual	
AC-PLS-P-25-S	25
AC-PLS-P-50-S	50
AC-PLS-P-100-S	100
AC-PLS-P-250-S	250
AC-PLS-P-500-S	500

*1 Refer to the Ordering Guide for a full list of SKUs supporting over 500 users.

*2 L-AC-PLS-P-G is required.

Cisco AnyConnect Apex Licenses

Product SKU ^{*1 *2}			User Range
1-Year	3-Years	5-Years	
L-AC-APX-1Y-S1	L-AC-APX-3Y-S1	L-AC-APX-5Y-S1	25 to 99
L-AC-APX-1Y-S2	L-AC-APX-3Y-S2	L-AC-APX -5Y-S2	100 to 249
L-AC-APX-1Y-S3	L-AC-APX-3Y-S3	L-AC-APX -5Y-S3	250 to 499

*1 Refer to the Ordering Guide for a full list of SKUs supporting over 500 users.

*2 L-AC-APX-LIC= is required.

Cisco AnyConnect VPN Only Licenses

Product SKU ^{*1 *2}	Simultaneous Connections
Perpetual	
L-AC-VPNO-25=	25
L-AC-VPNO-50=	50
L-AC-VPNO-100=	100
L-AC-VPNO-250=	250
L-AC-VPNO-500=	500

*1 Refer to the Ordering Guide for a full list of SKUs supporting over 500 users.

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Cloud-Managed Next-Generation Endpoint Security

The **Cisco Advanced Malware Protection (AMP) for Endpoints** is a cloud-managed endpoint security solution that provides the visibility, context, and control to prevent breaches, but also rapidly detect, contain, and remediate threats if they evade front-line defenses and get inside, all cost-effectively and without affecting operational efficiency.

- **Prevent:** Strengthen defenses using the best global threat intelligence and block malware in real time
- **Detect:** Continuously monitor and record all file activity to quickly detect stealthy malware
- **Respond:** Accelerate investigations and automatically remediate malware across PCs, Macs, Linux, servers and mobile devices (Android and iOS)

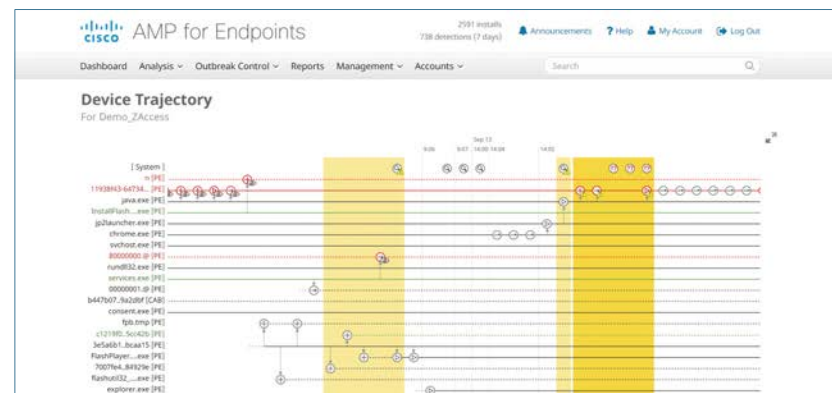
Threat Intelligence and Dynamic Malware Analysis

The Cisco AMP is built on an extensive collection of real-time threat intelligence and dynamic malware analytics supplied by the **Cisco Talos Security Intelligence Group**, and **Cisco Threat Grid** intelligence feeds.

Organizations benefit from:

- 1.5 million incoming malware samples per day
- 1.6 million global sensors
- 100 terabytes of data per day
- 13 billion web requests
- Team of engineers, technicians, and researchers
- 24-hour operations

Cisco AMP for Endpoints is managed through an easy-to-use, web-based console. It is deployed through AMP's lightweight endpoint connector, with no performance impact on users. Analysis is done in the cloud, not on the endpoint. The solution is offered as a subscription on endpoints, including coverage for Windows, Macs, Linux, servers and mobile devices (Android and iOS).



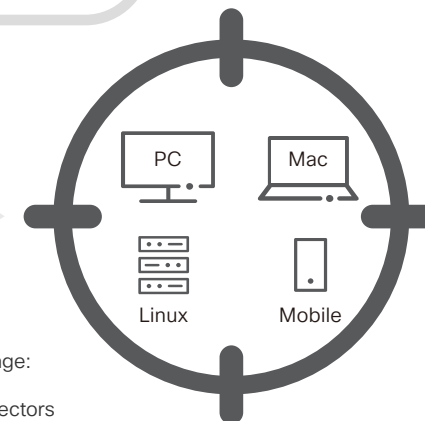
Managed through an easy-to-use, web-based console



Visibility

Context

Control



Broad Endpoint Coverage:
Lightweight
AMP for Endpoints Connectors



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Cisco AMP for Endpoints Connector Licenses

Product SKU ^{*1 *2}			Connector Range
1-Year	3-Years	5-Years	
FP-AMP-1Y-S1	FP-AMP-3Y-S1	FP-AMP-5Y-S1	50 to 99
FP-AMP-1Y-S2	FP-AMP-3Y-S2	FP-AMP-5Y-S2	100 to 499

*1 Refer to the Ordering Guide for a full list of SKUs supporting over 500 users.

*2 FP-AMP-LIC= is required.

Cisco AMP Virtual Private Cloud Appliance

Product SKU ^{*1}	Max Connectors
FP-AMP-CLOUD-SW	10,000

*1 FP-AMP-CLOUD-BUN and Cisco AMP for Endpoints Connector License are required.

Software Requirements

Connector	Supported OS
Cisco AMP Windows Connector	<ul style="list-style-type: none"> ● Microsoft Windows 7 ● Microsoft Windows 8 and 8.1 ● Microsoft Windows 10 ● Microsoft Windows Server 2008 ● Microsoft Windows Server 2012
Cisco AMP Mac Connector	<ul style="list-style-type: none"> ● Mac OS X 10.7 and later
Cisco AMP Linux Connector	<ul style="list-style-type: none"> ● Linux Red Hat Enterprise 6.5, 6.6, 6.7, 6.8, 7.2, and 7.3 ● Linux CentOS 6.4, 6.5, 6.6, 6.7, 6.8, 7.2 and 7.3
Cisco AMP Mobile	<ul style="list-style-type: none"> ● Android version 2.1 and later ● MDM supervised iOS version 11

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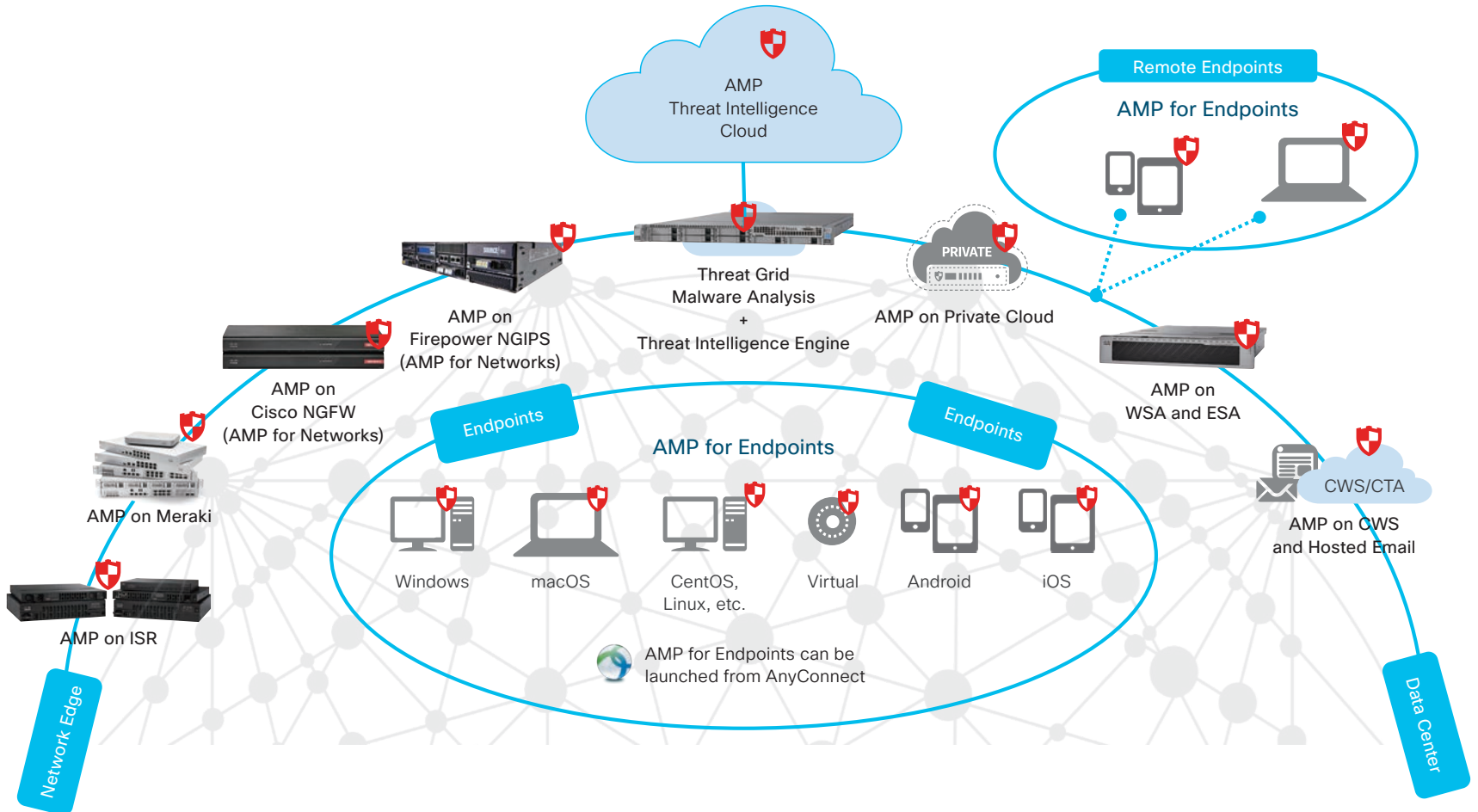
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AMP Everywhere

Find the Best AMP Deployment for You

The Cisco Advanced Malware Protection (AMP) is subscription-based, managed through a web-based management console, and deployed on a variety of platforms.



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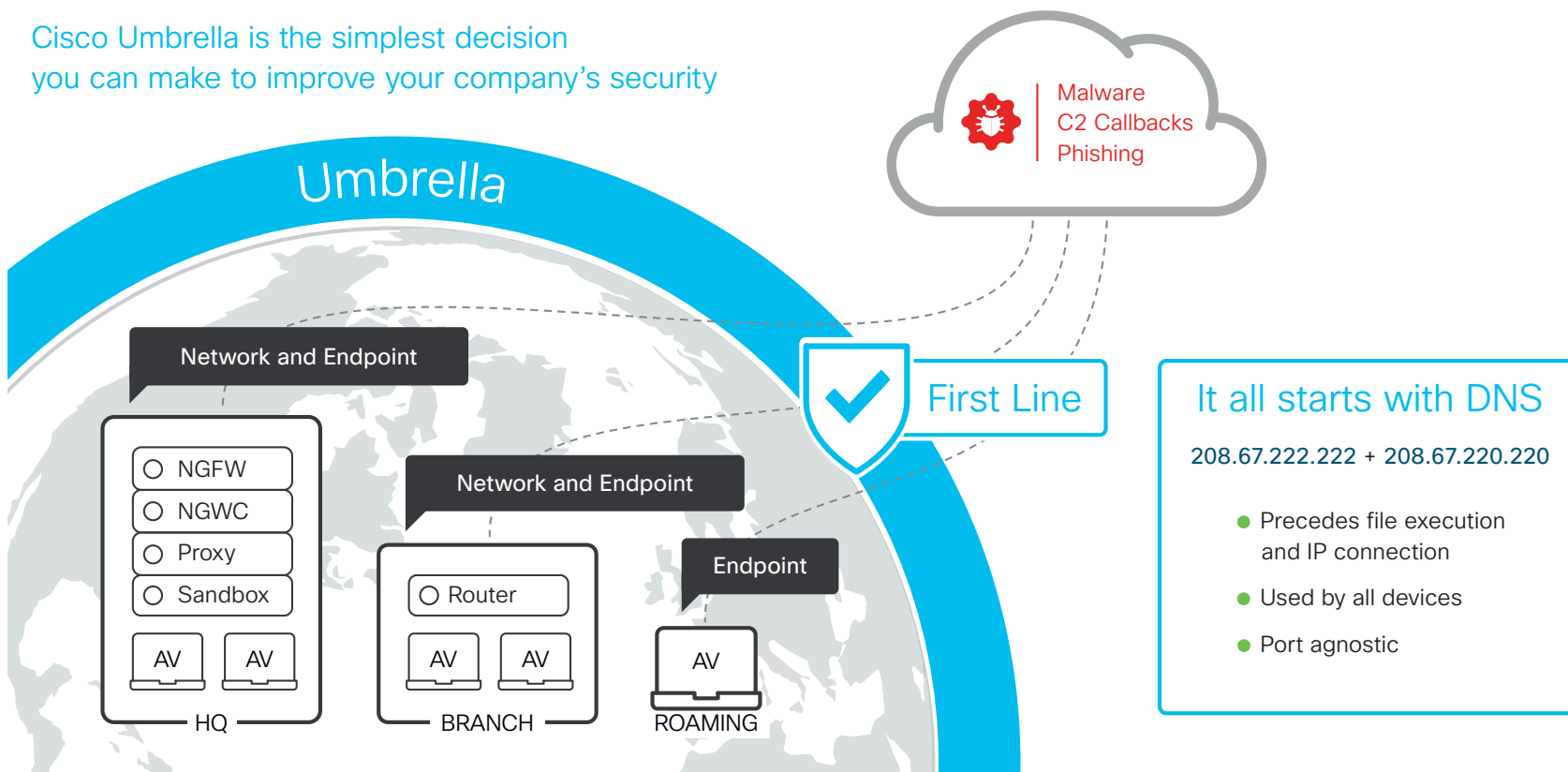
Promotions

The Fastest and Easiest Way to Protect All of Your Users in Minutes

The **Cisco Umbrella** is the industry's first **Secure Internet Gateway** that provides the first line of defense against threats on the internet wherever users go. Umbrella delivers complete visibility into internet activity across all locations, devices, and users, and blocks threats before they ever reach your network or endpoints. As a cloud-delivered, open platform, Umbrella integrates easily with your existing security stack and delivers live threat intelligence about current and emerging threats.

Because it is delivered from the cloud, there is no hardware to install or software to manually update. You can provision all on-network devices — including BYOD and IoT — in minutes and use your existing Cisco footprint — AnyConnect, Wireless Controller, Integrated Services Router (ISR), and so on — to quickly provision thousands of network egresses and roaming laptops. Additionally, with the Cisco Security Connector app, you can use the Umbrella extension to protect supervised iOS 11 devices.

Cisco Umbrella is the simplest decision
you can make to improve your company's security



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Package		Roaming	Branch	WLAN	Professional	Insights	Platform
Best for		AnyConnect NGFW	ISR 4000	Wireless Controllers	Small Companies	Mid-sized Companies	Advanced Security Teams
Performance	100 % Cloud: No Hardware to Install or Software to Maintain	●	●	●	●	●	●
	100 % Uptime: Resolves 80 B+ Requests Daily with No Added Latency	●	●	●	●	●	●
	7 M+ Unique Malicious Destinations Enforced Concurrently across 25 Data Centers	●	●	●	●	●	●
Protection	Add a New Layer of Predictive Security for Any Device, Anywhere	● ^{*1}	● ^{*3}	● ^{*3}	●	●	●
	Prevent Malware, Phishing, and C2 Callbacks over Any Port	●	●	●	●	●	●
	Enforce Acceptable Use Policies Using 60 Content Categories	-	●	●	●	●	●
Enforcement	Block Malicious Domain Requests & IP Responses at the DNS-Layer	●	●	●	●	●	●
	Block Malicious URL Paths & Direct IP Connections at the IP-Layer	-	-	-	-	●	●
Visibility	Real-Time, Enterprise-Wide Activity Search & Scheduled Reports	●	●	●	●	●	●
	Identify Targeted Attacks by Comparing Local vs. Global Activity	-	-	-	-	●	●
	Identify Cloud & IoT Usage Risks by Reporting on 1800+ Services	-	-	-	-	●	●
Management	Custom Block/Allow Lists, Built-in Block Pages, and Bypass Options	● ^{*2}	●	●	●	●	●
	Enforcement & Visibility per Internal Network or AD User/Group	-	● ^{*4}	● ^{*5}	-	●	●
	Retain Logs Forever by Integrating with Your Amazon S3 Bucket	-	-	-	-	●	●
Platform Package Exclusive	API-based Integrations to Enforce & Manage 3rd-party Block Lists	-	-	-	-	-	●
	Investigate Console: Threat Intelligence on All Domains, IPs, & File Hashes	-	-	-	-	-	●

*1 Off-network only. *2 Only has allow list and 1 built-in block page. *3 On-network only.

*4 Only per internal network (no Active Directory). *5 Per SSID, access point, AP group, and user group (no Active Directory).

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Cisco Umbrella Roaming License

Product SKU ^{*1}	Description
UMB-ROAM	Umbrella Roaming per User License

*1 UMBRELLA-SUB is required.

Cisco Umbrella Branch Licenses

Product SKU	Description
UMB-BRAN-4221	Umbrella Branch License for Cisco ISR 4321
UMB-BRAN-4321	Umbrella Branch License for Cisco ISR 4321
UMB-BRAN-4331	Umbrella Branch License for Cisco ISR 4331
UMB-BRAN-4351	Umbrella Branch License for Cisco ISR 4351
UMB-BRAN-4431	Umbrella Branch License for Cisco ISR 4431
UMB-BRAN-4451	Umbrella Branch License for Cisco ISR 4451

*1 UMBRELLA-SUB is required.

Cisco Umbrella WLAN License

Product SKU ^{*1}	Description
UMB-WLAN	Umbrella WLAN per Access Point License

*1 UMBRELLA-SUB is required.

Cisco Umbrella Professional License

Product SKU ^{*1}	Description
UMB-PROFESSIONAL	Umbrella Professional per User License

*1 UMBRELLA-SUB is required.

Cisco Umbrella Insights License

Product SKU ^{*1}	Description
UMB-INSIGHTS-K9	Umbrella Insights per User License

*1 UMBRELLA-SUB is required.

Cisco Umbrella Platform License

Product SKU ^{*1}	Description
UMB-PLATFORM-K9	Umbrella Platform per User License

*1 UMBRELLA-SUB is required.

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Promotion Prices & Trial

OpenDNS
Home

FREE

Our classic, free service
with customizable filtering
and identity theft protection

OpenDNS
Home VIP

US\$ 19.95/year

OpenDNS Home package
plus one year of usage stats
and optional white-list mode

Umbrella
14 Day Trial

FREE

Get start in 30 seconds
No credit card or
phone call required

Umbrella
Professional

US\$ 38/year

Per user (10 to 90 users)

Cisco Promotion Price

Free Umbrella 14-Day Trial (<https://signup.opendns.com/freetrial>)

If you want to add an additional layer of DNS security to your router or firewall, try our free trial—you can set it up yourself in less than five minutes, no credit card or phone call required.

Umbrella Professional: Best for Small Companies (<https://umbrella.cisco.com/products/small-teams>)

This is Cisco's direct sale promotion price via on-line credit card settlement. Cisco authorized distributors are also offering even more attractive promotion pricing for various umbrella packages. Actual purchase price will be determined between purchaser & reseller of your choice.

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100 % Centralized Cloud Management for Security, Networking, and Application Control

The **Cisco Meraki MX Cloud Managed Security Appliances** are ideal for organizations considering a Unified Threat Management (UTM) solution, for distributed sites, campuses or datacenter VPN concentration. Since the MX is 100 % cloud managed, installation and remote management is simple. The MX has a comprehensive suite of network services, eliminating the need for multiple appliances.

These services include SD-WAN capabilities, application-based firewalling, content filtering, web search filtering, SNORT based intrusion detection and prevention, Cisco Advanced Malware Protection (AMP), web caching, 4G cellular failover and more. Auto VPN and SD-WAN features are available on our hardware and virtual appliances, configurable in Amazon Web Services.



Highlights

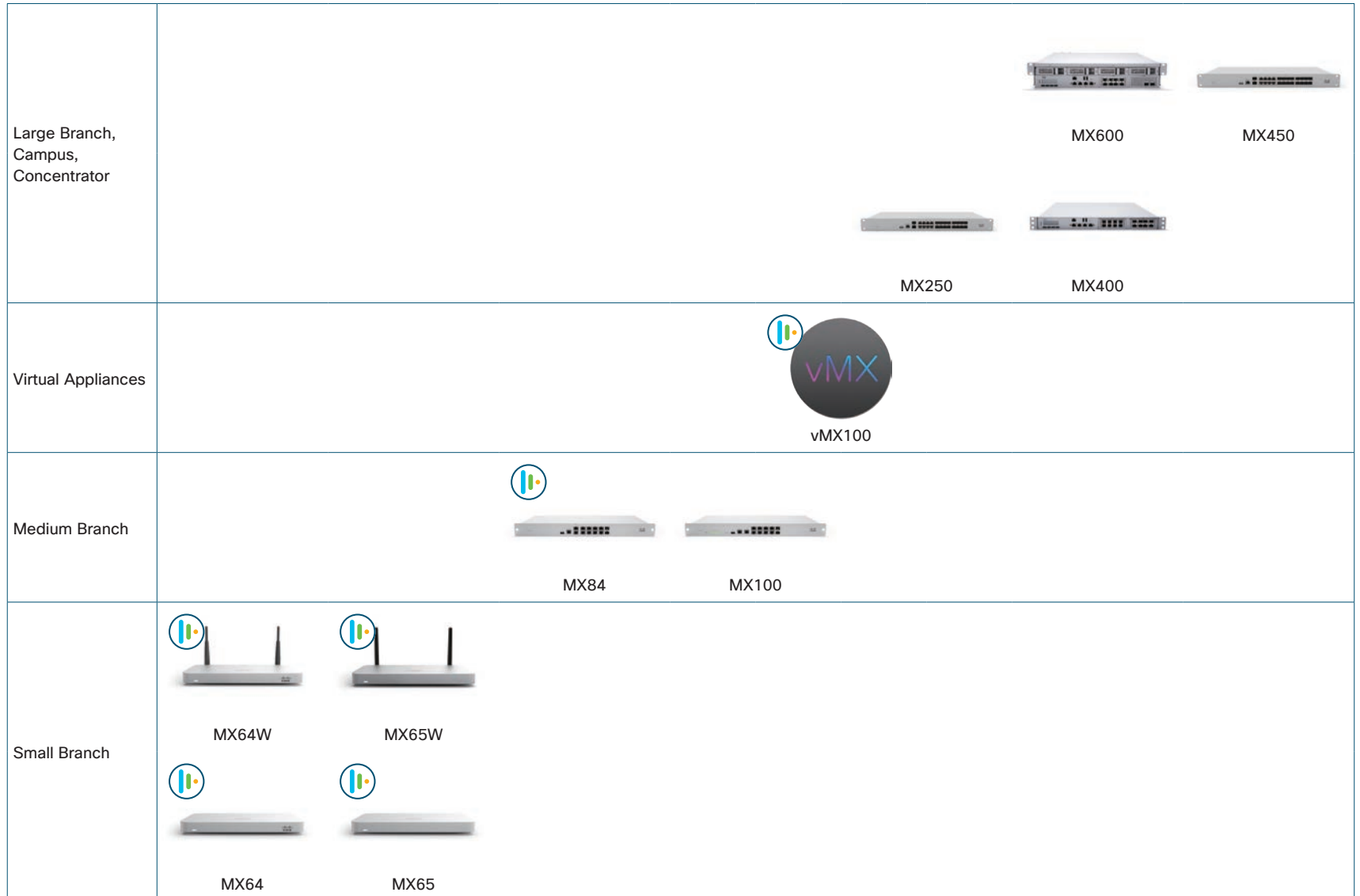
- **Identity-Based Firewall:** Automatically assigns firewall and traffic shaping rules, VLAN tags, and bandwidth limits to enforce the right policies for each class of users
- **Intrusion Prevention:** Protects critical network resources from the latest security threats and vulnerabilities
- **Auto VPN:** Securely connects branch locations using mesh or hub-and-spoke topologies. Provides simple VPN access into Amazon Web Services
- **Content Filtering:** Block undesirable web content across 70+ categories, and leverage cloud lookups to filter billions of URLs
- **Advanced Malware Protection:** Protect your network against malware using the latest threat intelligence, and identify previously unknown malicious files with retrospective detection
- **High Availability & Failover:** Provides device and connection integrity through multiple uplinks, warm spare failover, and self-healing VPN
- **Application Visibility & Control:** Identify which applications are being used, and then prioritize critical apps while limiting recreational apps
- **Centralized Management:** Seamlessly manage campus-wide Wi-Fi deployments and distributed multi-site networks from a single pane-of-glass

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Throughput

→ High

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Product SKU	Recommended Clients	Throughput			Concurrent VPN Tunnels	Web Caching	WAN/LAN Ports		LAN Ports			Wireless		Power Supply	Rack Mount
		Stateful Firewall	Advanced Security	VPN			GE	GE	GE	GE PoE+	SFP	11ac AP	4G LTE		
MX64-HW	50	250 Mbps	200 Mbps	100 Mbps	50	-	1	1	4	-	-	-	- ^{*2}	External	- ^{*2}
MX64W-HW	50	250 Mbps	200 Mbps	100 Mbps	50	-	1	1	4	-	-	●	- ^{*2}	External	- ^{*2}
MX65-HW	50	250 Mbps	200 Mbps	100 Mbps	50	-	2	-	8	2	-	-	- ^{*2}	External	- ^{*2}
MX65W-HW	50	250 Mbps	200 Mbps	100 Mbps	50	-	2	-	8	2	-	●	- ^{*2}	External	- ^{*2}
MX84-HW	200	500 Mbps	320 Mbps	250 Mbps	100	1 TB	2	-	8	-	2	-	- ^{*2}	Internal	1 RU
vMX100	-	-	-	500 Mbps	-	-	-	-	-	-	-	-	-	-	-

*1 Cellular Modem is required.

*2 Desktop or Wall mountable with included mount hardware.



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Cisco Meraki Enterprise Licenses for Cisco Meraki MX Series

Product SKU			Compatible Models
1-Year	3-Years	5-Years	
LIC-MX64-ENT-1YR	LIC-MX64-ENT-3YR	LIC-MX64-ENT-5YR	MX64
LIC-MX64W-ENT-1YR	LIC-MX64W-ENT-3YR	LIC-MX64W-ENT-5YR	MX64W
LIC-MX65-ENT-1YR	LIC-MX65-ENT-3YR	LIC-MX65-ENT-5YR	MX65
LIC-MX65W-ENT-1YR	LIC-MX65W-ENT-3YR	LIC-MX65W-ENT-5YR	MX65W
LIC-MX84-ENT-1YR	LIC-MX84-ENT-3YR	LIC-MX84-ENT-5YR	MX84

Cisco Meraki Advanced Security Licenses for Cisco Meraki MX Series

Product SKU			Compatible Models
1-Year	3-Years	5-Years	
LIC-MX64-SEC-1YR	LIC-MX64-SEC-3YR	LIC-MX64-SEC-5YR	MX64
LIC-MX64W-SEC-1YR	LIC-MX64W-SEC-3YR	LIC-MX64W-SEC-5YR	MX64W
LIC-MX65-SEC-1YR	LIC-MX65-SEC-3YR	LIC-MX65-SEC-5YR	MX65
LIC-MX65W-SEC-1YR	LIC-MX65W-SEC-3YR	LIC-MX65W-SEC-5YR	MX65W
LIC-MX84-SEC-1YR	LIC-MX84-SEC-3YR	LIC-MX84-SEC-5YR	MX84

Cisco Meraki Advanced Security Licenses for Cisco Meraki vMX100

Product SKU			Compatible Models
1-Year	3-Years	5-Years	
LIC-VMX100-1YR	LIC-VMX100-3YR	LIC-VMX100-5YR	vMX100

Cisco Meraki 1000BASE Small Form-Factor Pluggable (SFP) Modules

SKU	Description	Max Distance	Compatible Series					
			MX64	MX64W	MX65	MX65W	MX84	vMX100
MA-SFP-1GB-TX	1000BASE-T SFP Module	100 m	-	-	-	-	●	-
MA-SFP-1GB-SX	1000BASE-SX SFP Module	550 m	-	-	-	-	●	-
MA-SFP-1GB-LX10	1000BASE-LX10 Module	10 km	-	-	-	-	●	-

TIP Cisco Meraki License Comparison

	Enterprise	Advanced Security
Stateful Firewall	●	●
Site to Site VPN	●	●
Client VPN	●	●
Branch Routing	●	●
Link Bonding and Failover	●	●
Application Control	●	●
Web Caching	●	●
Content Filtering	-	●
Geo-based IP Firewall	-	●
Google SafeSearch and YouTube for Schools	-	●
Intrusion Detection & Prevention (IDS/IPS)	-	●
Advanced Malware Protection (AMP)	-	●
Cisco Threat Grid ^{*1}	-	●

*1 Cisco Threat Grid License is required.

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Offering Fast, Reliable Connectivity for the Modern Teleworker

The **Cisco Meraki Z Cloud Managed Teleworker Gateway** is an enterprise class firewall, VPN gateway and router. Each model offers five gigabit ethernet ports and wireless for connectivity. Each model is designed to securely extend the power of Meraki cloud managed networking to employees, IT staff, and executives working from home.

Using Meraki's proven and highly scalable Auto VPN technology, administrators can deploy network services including VoIP and remote endpoints with automatic, zero-touch provisioning. All models feature a high-performance stateful firewall, support for VLANs, inter-VLAN routing, and isolation to segregate corporate data from recreational traffic.



Highlights

- Self-configuring, plug-and-play deployment
- Auto VPN for intelligent site-to-site VPN connectivity
- Layer 7 application traffic shaping and prioritization
- Layer 3 firewall to separate corporate data from personal traffic
- IEEE 802.1x port authentication for wired devices
- USB port for 3G/4G connectivity
- GE downlinks for printers, phones and other wired devices
- PoE output for VoIP phones and other powered devices
- Built-in IEEE 802.11n/ac-compatible wireless access point
- Up to 4 SSIDs with integrated enterprise security and personal/guest access
- Sleek, low profile design
- Optional desk stand

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Product SKU	Recommended Clients	Throughput		WAN Ports	LAN Ports		Wireless			Power Supply	Rack Mount
		Stateful Firewall	VPN	GE	GE	GE PoE+	11n AP	11ac AP	4G LTE		
Z3-HW NEW	5	100 Mbps	50 Mbps	1	3	1	●	●	●	External	-*2

*1 Desktop or Wall mountable with included mount hardware.

*1 Desktop or Wall mountable with included mount hardware. Vertical Desk Stand (MA-STND-1) is available.

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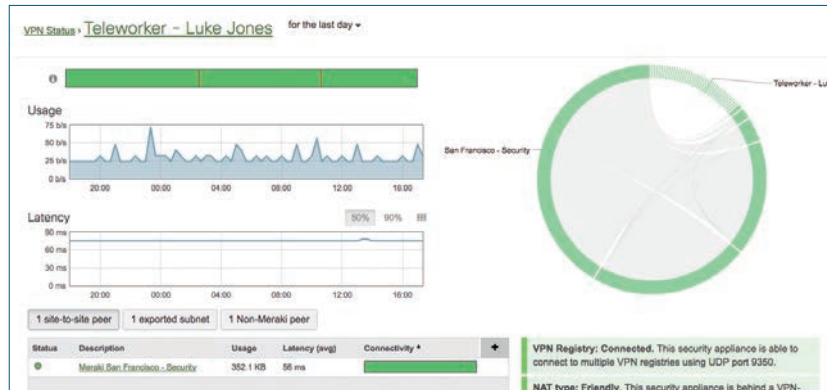
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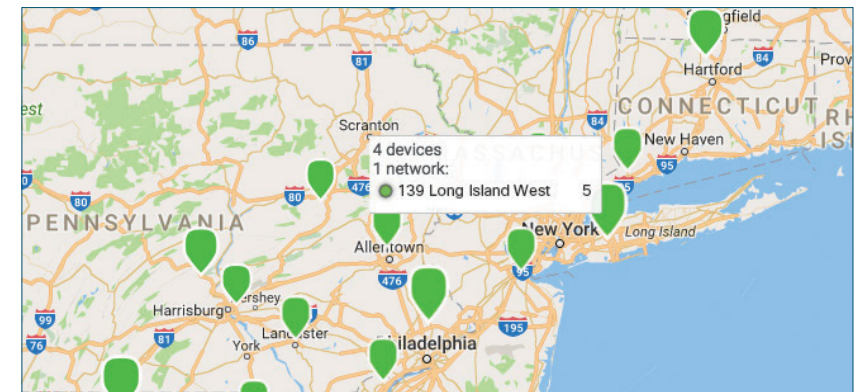
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Auto Configuring Site-to-Site VPN

Multi-Site Management via the Meraki Cloud



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Cisco Meraki Enterprise Licenses for Cisco Meraki Z Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	10-Years	
LIC-Z3-ENT-1YR	LIC-Z3-ENT-3YR	LIC-Z3-ENT-5YR	LIC-Z3-ENT-7YR	LIC-Z3-ENT-10YR	Z3

Cisco Meraki Vertical Desk Stand for Cisco Meraki Z3

Product SKU	Description
MA-STND-1	Vertical Desk Stand



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Bringing Meraki Magic to the Video Security World

The [Cisco Meraki MV Cloud Managed Security Cameras](#) are exceptionally simple to deploy and configure. Their integration into the Meraki dashboard, ease of deployment, and use of cloud-augmented edge storage, eliminate the cost and complexity required by traditional security camera solutions.

Like all Meraki products, MV cameras provide zero-touch deployment. Using just serial numbers, an administrator can add devices to the Meraki dashboard and begin configuration before the hardware even arrives on site. In the Meraki dashboard, users can easily stream video and create video walls for monitoring key areas across multiple locations without ever configuring an IP or installing a plugin.



Highlights

- **Centralized Cloud Management:** The Meraki dashboard provides secure monitoring and management of all your cameras from anywhere in the world
- **Edge Storage:** 128 or 256 GB of high write endurance solid state storage on each camera eliminates the need for an NVR
- **Optimized Retention:** Use motion-based retention and scheduled recording to customize video storage plans for every deployment
- **Advanced Analytics:** Industry-leading analytics and machine learning capabilities onboard each MV12
- **Motion Search:** Dynamically and retroactively select areas of interest in a video stream to find that missing laptop, then export clips directly from the dashboard
- **Encrypted By Default:** Video is encrypted at rest and during transport by default, with automated TLS certificate provisioning
- **Granular Access Controls:** Easily define who can see which video streams, view historical footage, and export video, all from the dashboard
- **Firmware Always Up-to-Date:** Feature releases, firmware updates, and bug fixes are always pushed automatically and at no additional cost with active license

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Model	Indoor			Outdoor	
Product SKU	MV12N-HW <small>NEW</small>	MV12W-HW <small>NEW</small>	MV12WE-HW <small>NEW</small>	MV21-HW	MV71-HW
Camera	1/3", 4 MP (2,688 × 1,520) progressive CMOS image sensor			1/3.2", 5 MP (2,560 × 1,920) progressive CMOS image sensor	
	3.8 mm focal length f/1.8 minimum aperture	2.8 mm focal length f/1.8 minimum aperture		3 - 10 mm vari-focal lens f/1.3 - 2.5 variable aperture	
	Field of view 73° horizontal 44° vertical 86° diagonal	Field of view 114° horizontal 61° vertical 132° diagonal		Variable field of view 28 - 82° (horizontal) 21 - 61° (vertical) 37 - 107° (diagonal)	
	1/32,000 to 1/30 sec. shutter speed			1/5 to 1/32,000 sec. shutter speed	
	Minimum illumination 0.18 Lux (standard recording) and 0.01 Lux (night mode)			Minimum illumination 0.27 Lux (F1.3, color) and 0.001 Lux (F1.3, B&W)	
	S/N Ratio 52.9 dB			S/N Ratio exceeding 62 dB - Dynamic Range 69 dB	
	Built-in IR illuminators, effective up to 15 m (49 ft)			Built-in IR illuminators, effective up to 30 m (98 feet)	
Video	1080p HD video recording (1,920 × 1,080) with H.264 encoding			720p HD video recording (1,280 × 720) with H.264 encoding	
Storage	256 GB high endurance SSD		128 GB high endurance SSD	128 GB high endurance SSD	
Interface	1 x GE, Dual band IEEE 802.11 a/b/g/n/ac, Bluetooth 4.X (BR/EDR/BLE)			1 x FE	
Power	Power consumption 12.95 W maximum via IEEE 802.3af PoE			Power consumption 10.94 W maximum via IEEE 802.3af PoE	
Dimensions	106 mm x 74 mm (diameter × height)			166 mm x 116.5 mm (diameter × height)	173.3 mm x 115 mm (diameter × height)
Weight	286 g			1,028 g (including mounting plate)	1,482 g (including mounting plate)
Lens Adjustment Range	Fixed			65° Tilt, 350° Rotation, 350° Pan	
Weather-Proof IP66	-			-	●
Vandal-Proof IK10	-			-	●



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Cisco Meraki Enterprise Licenses for Cisco Meraki MV Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	10-Years	
LIC-MV-1YR	LIC-MV-3YR	LIC-MV-5YR	LIC-MV-7YR	LIC-MV-10YR	All MV

Cisco Meraki Power Injector for Cisco Meraki MV Series

Product SKU	Description	Compatible Models
MA-INJ-4-xx	PoE Injector (802.3at)	All MV

Cisco Meraki Mount Kits for Cisco Meraki MV Series

Product SKU	Description	Compatible Models				
		MV12N	MV12W	MV12WE	MV21	MV71
MA-MNT-MV-1	Wall Mount Arm	-	-	-	●	●
MA-MNT-MV-2	Pole Mount	-	-	-	-	●
MA-MNT-MV-3	L-Shape Wall Mount Bracket	-	-	-	●	●



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Cisco Catalyst 2960-L Series

Entry-level, Fixed-Configuration, Layer 2 Gigabit Ethernet Switches
Powering Small Networks with Quietness & Ease



WS-C2960L-16PS-LL

IOS Enhanced LAN Lite	Static Routing	RIP	Virtual Stacking	Web UI CCP Express	Over-the-Air via Bluetooth
16-port GE PoE+ Up to 120 W	Perpetual PoE	2-port SFP	Fanless	Desktop	
Optional Magnetic Mount	Optional DIN Rail Mount				

WS-C2960L-48PS-AP

IOS Enhanced LAN Lite	Static Routing	RIP	Virtual Stacking	Web UI CCP Express	Over-the-Air via Bluetooth
48-port GE PoE+ Up to 370 W	Perpetual PoE	4-port SFP	1 RU Rack Mount		

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3650/3850

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	Access, Distribution, and Core Switches			Data Center Switches
	On-Premises Managed		Cloud Managed	
Overview	 <p>SF/SG Switches</p>	 <p>Catalyst Switches</p>	 <p>Meraki MS Switches</p>	 <p>Nexus Switches</p>
Highlights	<ul style="list-style-type: none"> ● Ideal for small and medium businesses ● Easy network management with Cisco FindIT Network Management 	<ul style="list-style-type: none"> ● Ideal for small and medium businesses, and organizations seeking to implement digital transformation ● Cisco Digital Network Architecture (DNA)-ready 	<ul style="list-style-type: none"> ● Provides unified visibility and control of the entire network via a single dashboard: not only switching, but also wireless, and security appliances 	<ul style="list-style-type: none"> ● Ideal for both traditional and fully automated software-defined data center deployments
Cisco Start Products	<ul style="list-style-type: none"> ● Cisco 95 Series Unmanaged Switches ● Cisco Small Business 110 Series Unmanaged Switches ● Cisco 220 Series Smart Switches ● Cisco 250 Series Smart Switches ● Cisco 350 Series Managed Switches ● Cisco 350X Series Stackable Managed Switches ● Cisco 550X Series Stackable Managed Switches 	<ul style="list-style-type: none"> ● Cisco Catalyst 2960-CX Series ● Cisco Catalyst 3560-CX Series ● Cisco Catalyst 2960-L Series ● Cisco Catalyst 2960-X Series ● Cisco Catalyst 3650 Series ● Cisco Catalyst 3850 Series 	<ul style="list-style-type: none"> ● Cisco Meraki MS120 Series ● Cisco Meraki MS210 Series ● Cisco Meraki MS220 Series ● Cisco Meraki MS225 Series 	<ul style="list-style-type: none"> ● Cisco Nexus 9348GC-FXP

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2960-L

2960-X

3650/3850

Meraki MS

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Cisco 100BASE Small Form-Factor Pluggable (SFP) Modules

SKU	Description	Max Distance	Compatible Series													
			SF/SG							Catalyst					Nexus	
			95 110	220	250	350	350X	550X	2960-CX	3560-CX	2960-L	2960-X	3650	3850	9348	
GLC-GE-100FX	100BASE-FX SFP	2 km	-	-	-	-	-	-	-	●	●	-	●	●	●	-

Cisco 1000BASE Small Form-Factor Pluggable (SFP) Modules

SKU	Description	Max Distance	Compatible Series													
			SF/SG							Catalyst					Nexus	
			95 110	220	250	350	350X	550X	2960-CX	3560-CX	2960-L	2960-X	3650	3850	9348	
MGBT1	1000BASE-T SFP	100 m	●	●	●	●	●	●	-	-	-	-	-	-	-	-
MGBSX1	1000BASE-SX SFP	500 m	●	●	●	●	●	●	-	-	-	-	-	-	-	-
MGBLH1	1000BASE-LH SFP	40 km	●	●	●	●	●	●	-	-	-	-	-	-	-	-
GLC-TE	1000BASE-T SFP	100 m	-	-	-	-	-	-	●	●	●	●	●	●	●	●
GLC-SX-MMD	1000BASE-SX SFP	1 km	-	-	-	-	-	-	●	●	●	●	●	●	●	●
GLC-LH-SMD	1000BASE-LX SFP	10 km	●	●	●	●	●	●	●	●	●	●	●	●	●	●
GLC-BX-D	1000BASE-BX SFP	10 km	-	-	-	-	-	-	●	●	●	●	●	●	●	-
GLC-BX-U	1000BASE-BX SFP	10 km	●	●	●	●	●	●	●	●	●	●	●	●	●	-
GLC-EX-SMD	1000BASE-EX SFP	40 km	-	-	-	-	-	-	●	●	●	●	●	●	●	-
GLC-ZX-SMD	1000BASE-ZX SFP	70 km	-	-	-	-	-	-	●	●	●	●	●	●	●	-

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Cisco 10GBASE Small Form-Factor Pluggable Plus (SFP+) Modules

SKU	Description	Max Distance	Compatible Series												
			SF/SG						Catalyst					Nexus	
			95 110	220	250	350	350X	550X	2960-CX	3560-CX	2960-L	2960-X	3650	3850	9348
SFP-10G-SR-S	S-class 10GBASE-SR SFP+	400 m	-	-	●	●	●	●	-	-	-	●	●	●	●
SFP-10G-SR	10GBASE-SR SFP+	400 m	-	-	●	●	●	●	-	●	-	●	●	●	●
SFP-10G-LRM	10GBASE-LRM SFP+	300 m	-	-	-	-	-	-	-	●	-	●	●	●	-
SFP-10G-LR-S	S-class 10GBASE-LR SFP+	10 km	-	-	●	●	●	●	-	-	-	●	●	●	●
SFP-10G-LR	10GBASE-LR SFP+	10 km	-	-	●	●	●	●	-	●	-	●	●	●	●
SFP-10G-BXD-I	10GBASE-BX SFP+	10 km	-	-	-	-	-	-	-	-	-	-	●	●	-
SFP-10G-BXU-I	10GBASE-BX SFP+	10 km	-	-	-	-	-	-	-	-	-	-	●	●	-
SFP-10G-BX40D-I	10GBASE-BX SFP+	40 km	-	-	-	-	-	-	-	-	-	-	●	●	-
SFP-10G-BX40U-I	10GBASE-BX SFP+	40 km	-	-	-	-	-	-	-	-	-	-	●	●	-
SFP-10G-ER-S	S-class 10GBASE-ER SFP+	40 km	-	-	-	-	-	-	-	-	-	●	●	●	●
SFP-10G-ER	10GBASE-ER SFP+	40 km	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-ZR-S	S-class 10GBASE-ZR SFP+	80 km	-	-	-	-	-	-	-	-	-	●	●	●	●
SFP-10G-ZR	10GBASE-ZR SFP+	80 km	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-H10GB-CU1M	10GBASE-CU SFP+	1 m	-	-	-	-	●	●	-	●	-	●	●	●	●
SFP-H10GB-CU1-5M	10GBASE-CU SFP+	1.5 m	-	-	-	-	-	-	-	●	-	●	●	●	-
SFP-H10GB-CU2M	10GBASE-CU SFP+	2 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-H10GB-CU2-5M	10GBASE-CU SFP+	2.5 m	-	-	-	-	-	-	-	●	-	●	●	●	-
SFP-H10GB-CU3M	10GBASE-CU SFP+	3 m	-	-	-	-	●	●	-	●	-	●	●	●	●
SFP-H10GB-CU5M	10GBASE-CU SFP+	5 m	-	-	-	-	●	●	-	●	-	●	●	●	●
SFP-H10GB-ACU7M	10GBASE-ACU SFP+	7 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-H10GB-ACU10M	10GBASE-ACU SFP+	10 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC1M	10GBASE-AOC SFP+	1 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC2M	10GBASE-AOC SFP+	2 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC3M	10GBASE-AOC SFP+	3 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC5M	10GBASE-AOC SFP+	5 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC7M	10GBASE-AOC SFP+	7 m	-	-	-	-	-	-	-	●	-	●	●	●	●
SFP-10G-AOC10M	10GBASE-AOC SFP+	10 m	-	-	-	-	-	-	-	●	-	●	●	●	●

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Transceiver Modules

Multigigabit

Cisco 40GBASE Quad Small Form-Factor Pluggable (QSFP+) Modules

SKU	Description	Max Distance	Compatible Series												
			SF/SG						Catalyst					Nexus	
			95 110	220	250	350	350X	550X	2960-CX	3560-CX	2960-L	2960-X	3650	3850	9348
QSFP-40G-SR-BD	40GBASE-SR QSFP+	150 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-SR4-S	S-class 40GBASE-SR4 QSFP+	150 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-SR4	40GBASE-SR4 QSFP+	150 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-CSR4	40GBASE-CSR4 QSFP+	400 m	-	-	-	-	-	-	-	-	-	-	-	●	●
WSP-Q40GLR4L	40GBASE-LR4L QSFP+	2 km	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-LR4-S	S-class 40GBASE-LR4 QSFP+	10 km	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-LR4	40GBASE-LR4 QSFP+	10 km	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-40G-ER4	40GBASE-ER4 QSFP+	40 km	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-CU1M	40GBASE-CU QSFP+	1 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-CU3M	40GBASE-CU QSFP+	3 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-CU5M	40GBASE-CU QSFP+	5 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-ACU7M	40GBASE-ACU QSFP+	7 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-ACU10M	40GBASE-ACU QSFP+	10 m	-	-	-	-	-	-	-	-	-	-	-	●	●
QSFP-H40G-AOC1M	40GBASE-AOC QSFP+	1 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC2M	40GBASE-AOC QSFP+	2 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC3M	40GBASE-AOC QSFP+	3 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC5M	40GBASE-AOC QSFP+	5 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC7M	40GBASE-AOC QSFP+	7 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC10M	40GBASE-AOC QSFP+	10 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC15M	40GBASE-AOC QSFP+	15 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC20M	40GBASE-AOC QSFP+	20 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC25M	40GBASE-AOC QSFP+	25 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-H40G-AOC30M	40GBASE-AOC QSFP+	30 m	-	-	-	-	-	-	-	-	-	-	-	-	●

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Transceiver Modules

Multigigabit

Cisco 100GBASE Quad Small Form-Factor Pluggable (QSFP+) Modules

SKU	Description	Max Distance	Compatible Series												
			SF/SG						Catalyst					Nexus	
			95 110	220	250	350	350X	550X	2960-CX	3560-CX	2960-L	2960-X	3650	3850	9348
QSFP-100G-SR4-S	100GBASE-SR4 QSFP+	100 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-40/100-SRBD	40/100GBASE-SR-BiDi QSFP+	100 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-PSM4-S	100GBASE-PSM4 QSFP+	500 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-SM-SR	100GBASE-CWDM4 Lite QSFP+	2 km	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-CWDM4-S	100GBASE-CWDM4 QSFP+	2 km	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-LR4-S	100GBASE-LR4 QSFP+	10 km	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-CU1M	100GBASE-CU QSFP+	1 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-CU2M	100GBASE-CU QSFP+	2 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-CU3M	100GBASE-CU QSFP+	3 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-CU5M	100GBASE-CU QSFP+	5 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC1M	100GBASE-AOC QSFP+	1 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC2M	100GBASE-AOC QSFP+	2 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC3M	100GBASE-AOC QSFP+	3 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC5M	100GBASE-AOC QSFP+	5 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC7M	100GBASE-AOC QSFP+	7 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC10M	100GBASE-AOC QSFP+	10 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC15M	100GBASE-AOC QSFP+	15 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC20M	100GBASE-AOC QSFP+	20 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC25M	100GBASE-AOC QSFP+	25 m	-	-	-	-	-	-	-	-	-	-	-	-	●
QSFP-100G-AOC30M	100GBASE-AOC QSFP+	30 m	-	-	-	-	-	-	-	-	-	-	-	-	●

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Cisco Meraki 1000BASE Small Form-Factor Pluggable (SFP) Modules

SKU	Description	Max Distance	Compatible Series			
			MS120	MS210	MS220	MS225
MA-SFP-1GB-TX	1000BASE-T SFP	100 m	●	●	●	●
MA-SFP-1GB-SX	1000BASE-SX SFP	550 m	●	●	●	●
MA-SFP-1GB-LX10	1000BASE-LX10 SFP	10 km	●	●	●	●

Cisco Meraki 10GBASE Small Form-Factor Pluggable Plus (SFP+) Modules

SKU	Description	Max Distance	Compatible Series			
			MS120	MS210	MS220	MS225
MA-SFP-10GB-SR	10GBASE-SR SFP+	400 m	-	-	-	●
MA-SFP-10GB-LRM	10GBASE-LRM SFP+	220 m	-	-	-	●
MA-SFP-10GB-LR	10GBASE-LR SFP+	10 km	-	-	-	●

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Challenges for Wired LAN Posed by 11ac “Gigabit Wireless LAN”

IEEE 802.11ac is a super high-speed wireless standard that delivers a theoretical maximum throughput of up to 6.9 Gbps. Wireless LAN is literally entering the “Gigabit era”, but the migration to 11ac is presenting wired LAN with “old and new” challenges. In other words, these are the same old challenges that were experienced during the migration from 11a/g to 11n. During the migration from 11a/g to 11n, it was obvious that Fast Ethernet switches (max 100 Mbps) had insufficient capacity to server as access switches for accommodating the access points. Similarly today, it is obvious that 1-Gigabit Ethernet switches (1 GE, max 1000 Mbps) have insufficient capacity when migrating from 11n to 11ac. Specifically:

- A bottleneck will occur if the uplink port of the access switches accommodating multiple 11ac compatible access points is 1 GE.
- A bottleneck will occur if the downlink port of the access switches accommodating 11ac Wave compatible access points is 1 GE.

Therefore, as was during the migration from 11a/g to 11n, replacement of access switches is therefore indispensable in order to unleash the full potential of 11ac.

The only current IEEE standard that is faster than 1 GE is 10 Gigabit Ethernet (10 GE) with copper or optical fiber cables. However, there are some difficulties associated with the deployment of 10 GE-compatible switches.

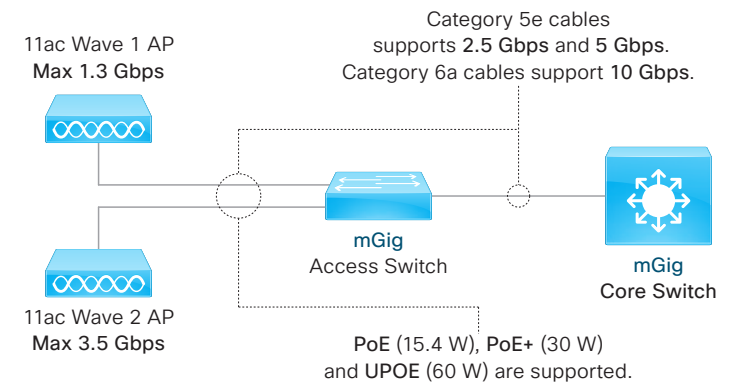
- Cable re-installation is required in many cases: Category 5e accounts for 46 % and Category 6 accounts for 28 % of the copper cables currently installed in corporations around the world, respectively. 10 GE via copper is not supported for Category 5e cables and is limited to a length of 55 meters for Category 6 cables. Installations of optical fiber cables and copper wire cables both require huge costs.
- Current 10 GE does not support PoE: Power supply units and power cables would be required for the access points.

Cisco Catalyst Multigigabit Technology (mGig)

Cisco’s innovative **Cisco Catalyst Multigigabit Technology (mGig)** has been developed to address all of these challenges posed by the deployment of 11ac. Largely, mGig offers the following three advantages:

- **Multi-Speed:** Category 5e cables support 100 Mbps, 1 Gbps, 2.5 Gbps and 5 Gbps; and category 6a cables support 10 Gbps, respectively.
- **Cable Type:** A wide variety of cable types are supported including Category 5e, Category 6, and Category 6a.
- **PoE:** PoE (15.4 W), PoE+ (30 W), and UPOE (60 W) are supported unlike the current 10 GE.

mGig is based on the technology of the NBASE-T Alliance established by Cisco in October 2014. A large number of vendors are participating in the NBASE-T Alliance; and IEEE standardization is currently being promoted for 2.5GBASE-T for 5GBASE-T.



Cisco Catalyst Multigigabit Technology (mGig): Speeds and Cables

Cable Type	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps
Cat 5e	●	●	●	-
Cat 6	●	●	●	● (55m)
Cat 6a	●	●	●	●

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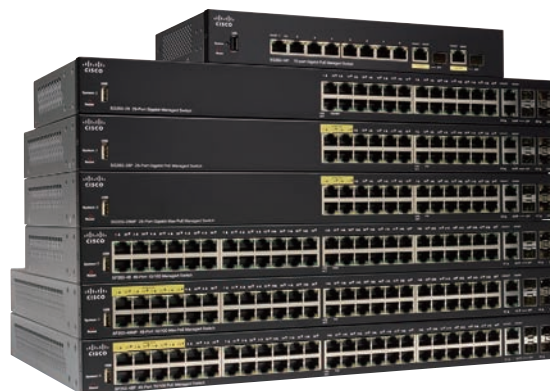
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Easy-to-Use Switches that Provide the Ideal Combination of Features and Affordability

The **Cisco SF/SG Switches** provide nonblocking, wire-speed switching for 10-, 100-, and 1000-Mbps network clients. These switches can be used to replace the current workgroup hub or switch and to deliver full 1- and 10-Gbps speeds to high-requirement workstations as necessary while continuing to serve other clients at their current speeds.

The switches can also be used to create a local area network within the business, with appropriate link speeds for each user's requirements. Either way, they're perfect for graphics, videos, and other applications that have to move large files across the network quickly.



Lineup

- Cisco 95/110 Series Unmanaged Switches

Get highly affordable Gigabit, Fast Ethernet, and PoE. No setup is required for QoS, network diagnostics, power-saving mode, and loop detection.

- Cisco 220 Series Smart Switches

Get the powerful features, security, and performance of a managed switch with the affordability that's closer to smart switches.

- Cisco 200/250 Series Smart Switches

Entry-level managed switch features and easy management at a great price. Build a business-class network with the features you need.

- Cisco 300/350 Series Managed Switches

The ideal combination of affordability and advanced network features for small business, these easy to use fully managed switches are the cornerstone of your network.

- Cisco 350X Series Stackable Managed Switches

Our managed switches deliver an ideal combination of affordability and advanced features with 10-Gigabit Ethernet and stacking.

- Cisco 550X Series Stackable Managed Switches

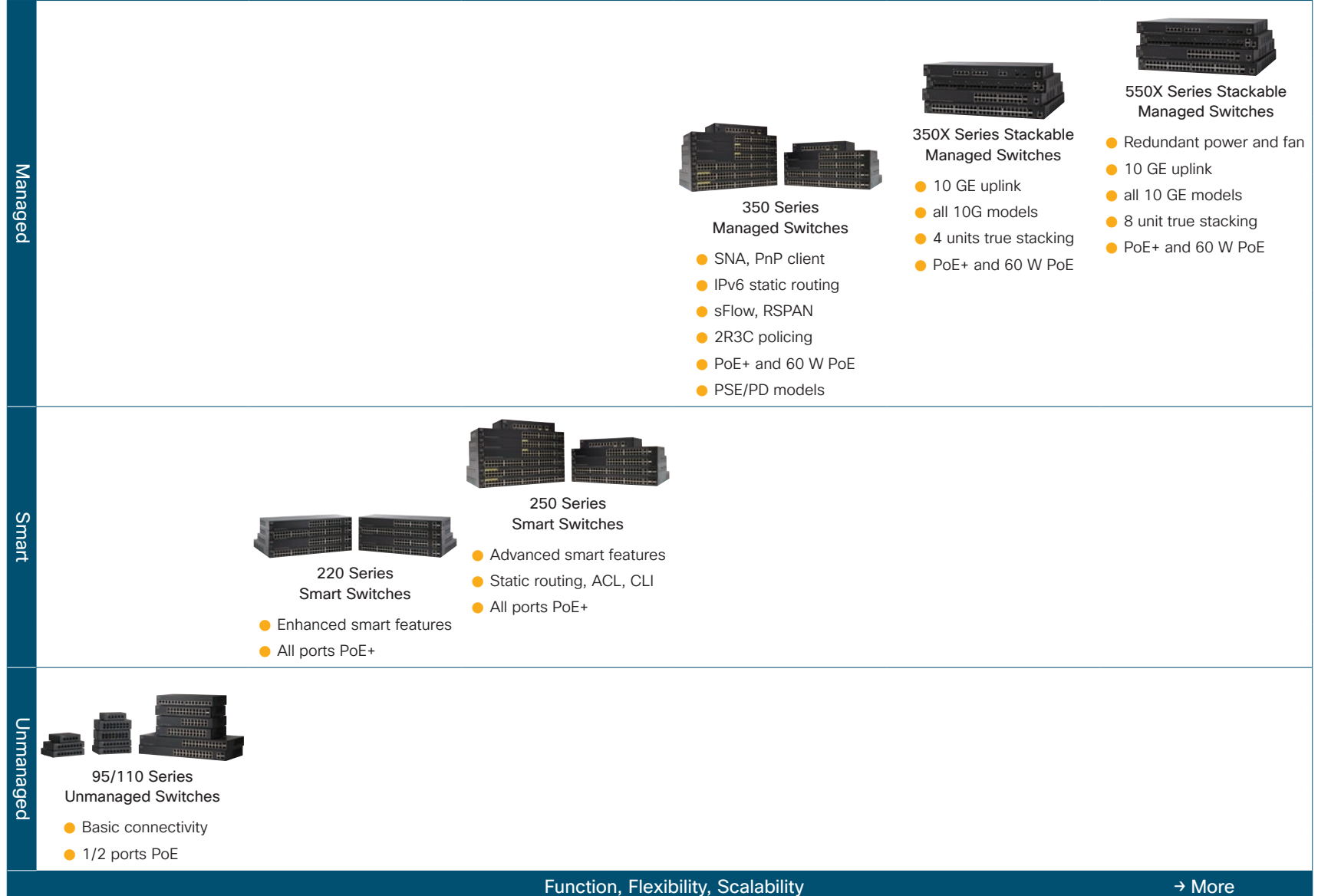
These next-generation stackable managed switches offer 10-Gigabit Ethernet and advanced capabilities to accelerate your business growth.

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Cisco 95 Series Unmanaged Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF95D-05-xx	CON-SMBS-F95D05xx	5	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF95D-08-xx	CON-SMBS-F95D08xx	8	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF95D-16-xx	CON-SMBS-F95D16xx	16	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF95-24-xx	CON-SMBS-SF9524xx	24	-	-	-	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG95D-05-xx	CON-SMBS-G95D05xx	-	5	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SG95D-08-xx	CON-SMBS-G95D08xx	-	8	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SG95-16-xx	CON-SMBS-SG9516xx	-	16	-	-	-	-	-	-	-	-	-	-	-	-	Internal	●	-	-
SG95-24-xx	CON-SMBS-SG9524xx	-	22	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU

Cisco 110 Series Unmanaged Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF110D-05-xx*1	CON-SMBS-SF0D05xx	5	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF110D-08-xx	CON-SMBS-SF0D08xx	8	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF110D-08HP-xx	CON-SMBS-0D08HPxx	8	-	-	-	-	-	-	-	4	-	32 W	af	-	-	External	●	-	-
SF110D-16-xx*1	CON-SMBS-SF0D16xx	16	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF110D-16HP-xx*1	CON-SMBS-0D16HPxx	16	-	-	-	-	-	-	-	8	-	64 W	af	-	-	External	●	-	-
SF110-16-xx*1	CON-SMBS-S1F016xx	16	-	-	-	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF110-24-xx	CON-SMBS-S1F024xx	24	-	-	-	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF112-24-xx	CON-SMBS-S1F224xx	-	22	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG110D-05-xx	CON-SMBS-SG0D05xx	-	5	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SG110D-08-xx	CON-SMBS-SG0D08xx	-	8	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SG110D-08HP-xx	CON-SMBS-0D08PHxx CON-SMBS-SG110Dxx	-	8	-	-	-	-	-	-	4	-	32 W	af	-	-	External	●	-	-
SG110-16-xx	CON-SMBS-S1G016xx	-	16	-	-	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG110-16HP-xx	-	-	16	-	-	-	-	-	-	8	-	64 W	af	-	-	Internal	●	-	1 RU
SG110-24-xx	CON-SMBS-S1G024xx	-	22	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG110-24HP-xx	-	-	22	-	2	-	-	-	-	12	-	100 W	af	-	-	Internal	-	-	1 RU
SG112-24-xx	CON-SMBS-S1G224xx	-	22	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU

*1 The "-AU" SKUs have reached end-of-life status.





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FindIT

Cisco 220 Series Smart Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF220-24-K9-xx*1	CON-SMBS-F2029xx1	24	-	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF220-24P-K9-xx*1	CON-SMBS-F2029xx2	24	-	-	2	-	-	-	-	24	-	180 W	af/at	-	-	Internal	-	-	1 RU
SF220-48-K9-xx*1	CON-SMBS-F2049xx1	48	-	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF220-48P-K9-xx*1	CON-SMBS-F2049xx2	48	-	-	2	-	-	-	-	48	-	375 W	af/at	-	-	Internal	-	-	1 RU
SG220-26-K9-xx	CON-SMBS-G2029xx1	-	24	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG220-26P-K9-xx	CON-SMBS-G2029xx2	-	24	-	2	-	-	-	-	24	-	180 W	af/at	-	-	Internal	-	-	1 RU
SG220-50-K9-xx	CON-SMBS-G2059xx1	-	48	-	2	-	-	-	-	-	-	-	-	-	-	Internal	-	-	1 RU
SG220-50P-K9-xx	CON-SMBS-G2059xx2	-	48	-	2	-	-	-	-	48	-	375 W	af/at	-	-	Internal	-	-	1 RU

*1 The "-AU" SKUs have reached end-of-life status.

Cisco 250 Series Smart Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF250-24-K9-xx <small>NEW</small>	-	24	-	2	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF250-24P-K9-xx <small>NEW</small>	-	24	-	2	2	-	-	-	-	24	-	185 W	af/at	-	-	Internal	-	-	1 RU
SF250-48-K9-xx	-	48	-	2	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF250-48HP-K9-xx	-	48	-	2	2	-	-	-	-	48	-	195 W	af/at	-	-	Internal	-	-	1 RU
SG250-08-K9-xx <small>NEW</small>	-	-	8	-	-	-	-	-	-	-	-	-	-	1	-	External	●	-	1 RU
SG250-08HP-K9-xx <small>NEW</small>	-	-	8	-	-	-	-	-	-	8	-	45 W	af/at	-	-	External	●	-	1 RU
SG250-10P-K9-xx	-	-	8	-	2	-	-	-	-	8	-	62 W	af/at	2	●	External	●	-	1 RU
SG250-18-K9-xx <small>NEW</small>	-	-	16	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG250-26-K9-xx	-	-	24	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SG250-26HP-K9-xx	-	-	24	-	2	-	-	-	-	24	-	100 W	af/at	-	-	Internal	-	-	1 RU
SG250-26P-K9-xx	-	-	24	-	2	-	-	-	-	24	-	195 W	af/at	-	-	Internal	-	-	1 RU
SG250-50-K9-xx <small>NEW</small>	-	-	48	-	2	-	-	-	-	-	-	-	-	-	-	Internal	-	-	1 RU
SG250-50HP-K9-xx <small>NEW</small>	-	-	48	-	2	-	-	-	-	48	-	192 W	af/at	-	-	Internal	-	-	1 RU
SG250-50P-K9-xx <small>NEW</small>	-	-	48	-	2	-	-	-	-	48	-	375 W	af/at	-	-	Internal	-	-	1 RU
SG250X-24-K9-xx <small>NEW</small>	-	-	24	-	-	-	2	2	-	-	-	-	-	-	-	Internal	-	-	1 RU
SG250X-24P-K9-xx <small>NEW</small>	-	-	24	-	-	-	2	2	-	24	-	195 W	af/at	-	-	Internal	-	-	1 RU
SG250X-48-K9-xx <small>NEW</small>	-	-	48	-	-	-	2	2	-	-	-	-	-	-	-	Internal	-	-	1 RU
SG250X-48P-K9-xx <small>NEW</small>	-	-	48	-	-	-	2	2	-	48	-	382 W	af/at	-	-	Internal	-	-	1 RU

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Cisco 350 Series Managed Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF350-08-K9-xx <small>NEW</small>	-	8	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	1 RU	
SF352-08-K9-xx <small>NEW</small>	-	8	-	-	2	-	-	-	-	-	-	-	-	-	External	●	-	1 RU	
SF352-08P-K9-xx <small>NEW</small>	-	8	-	-	2	-	-	-	-	8	-	62 W	af/at	-	External	●	-	1 RU	
SF352-08MP-K9-xx <small>NEW</small>	-	8	-	-	2	-	-	-	-	8	-	128 W	af/at	-	External	●	-	1 RU	
SF350-24-K9-xx <small>NEW</small>	-	24	-	2	2	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU	
SF350-24P-K9-xx <small>NEW</small>	-	24	-	2	2	-	-	-	-	24	4	185 W	af/at	-	Internal	-	-	1 RU	
SF350-24MP-K9-xx <small>NEW</small>	-	24	-	2	2	-	-	-	-	24	4	375 W	af/at	-	Internal	-	-	1 RU	
SF350-48-K9-xx	-	48	-	2	2	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU	
SF350-48P-K9-xx	-	48	-	2	2	-	-	-	-	48	8	382 W	af/at	-	Internal	-	-	1 RU	
SF350-48MP-K9-xx	-	48	-	2	2	-	-	-	-	48	8	740 W	af/at	-	Internal	-	-	1 RU	
SG350-8PD-K9-xx <small>NEW</small>	-	-	6	-	-	2	-	-	2	8	-	124 W	af/at	-	Internal	●	-	1 RU	
SG350-10-K9-xx	-	-	8	-	2	-	-	-	-	-	-	-	-	2	●	External	●	-	1 RU
SG350-10P-K9-xx	-	-	8	-	2	-	-	-	-	8	-	62 W	af/at	2	●	External	●	-	1 RU
SG350-10MP-K9-xx	-	-	8	-	2	-	-	-	-	8	-	124 W	af/at	2	●	External	●	-	1 RU
SG355-10P-K9-xx	-	-	8	-	2	-	-	-	-	8	-	62 W	af/at	2	●	Internal	●	-	1 RU
SG350-10SFP-K9-xx <small>NEW</small>	-	-	-	8	2	-	-	-	-	-	-	-	-	-	External	●	-	1 RU	
SG350-20-K9-xx <small>NEW</small>	-	-	16	2	2	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU	
SG350-28-K9-xx	-	-	24	2	2	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU	
SG350-28P-K9-xx	-	-	24	2	2	-	-	-	-	24	4	195 W	af/at	-	Internal	-	-	1 RU	
SG350-28MP-K9-xx	-	-	24	2	2	-	-	-	-	24	4	382 W	af/at	-	Internal	-	-	1 RU	
SG350-28SFP-K9-xx <small>NEW</small>	-	-	-	26	2	-	-	-	-	-	-	-	-	-	Internal	-	-	1 RU	
SG350-52-K9-xx <small>NEW</small>	-	-	48	2	2	-	-	-	-	-	-	-	-	-	Internal	-	-	1 RU	
SG350-52P-K9-xx <small>NEW</small>	-	-	48	2	2	-	-	-	-	48	8	375 W	af/at	-	Internal	-	-	1 RU	
SG350-52MP-K9-xx <small>NEW</small>	-	-	48	2	2	-	-	-	-	48	8	740 W	af/at	-	Internal	-	-	1 RU	

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FindIT

Cisco 350X Series Stackable Managed Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SG350X-8PMD-K9-xx <small>NEW</small>	-	-	-	-	-	8	-	-	2	8	4	240 W	af/at	-	-	Internal	-	●	1 RU
SG350X-24-K9-xx	-	-	24	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350X-24P-K9-xx	-	-	24	-	-	-	-	2	2	24	4	195 W	af/at	-	-	Internal	-	●	1 RU
SG350X-24MP-K9-xx	-	-	24	-	-	-	-	2	2	24	4	382 W	af/at	-	-	Internal	-	●	1 RU
SG350X-24PD-K9-xx <small>NEW</small>	-	-	20	-	-	4	-	2	2	24	4	375 W	af/at	-	-	Internal	-	●	1 RU
SG350X-48-K9-xx	-	-	48	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350X-48P-K9-xx	-	-	48	-	-	-	-	2	2	48	8	382 W	af/at	-	-	Internal	-	●	1 RU
SG350X-48MP-K9-xx	-	-	48	-	-	-	-	2	2	48	8	740 W	af/at	-	-	Internal	-	●	1 RU
SG350XG-2F10-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	10	2	-	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-24T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	22	-	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-24F-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	22	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-48T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	46	-	2	-	-	-	-	-	-	Internal	-	●	1 RU

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FindIT

Cisco 550X Series Stackable Managed Switches

Product SKU	Service (CSE) SKU	Ports								PoE					AC Power	Fan less	Stack able	Rack Mount	
		FE	GE	SFP	GE/SFP	2.5G mGig	10 GB-T	SFP+	10GB-T /SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports					Pass through
SF550X-24-K9-xx	-	24	-	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SF550X-24P-K9-xx	-	24	-	-	-	-	-	2	2	24	8	195 W	af/at	-	-	Internal	-	●	1 RU
SF550X-24MP-K9-xx	-	24	-	-	-	-	-	2	2	24	8	382 W	af/at	-	-	Internal	-	●	1 RU
SF550X-48-K9-xx	-	48	-	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SF550X-48P-K9-xx	-	48	-	-	-	-	-	2	2	48	16	382 W	af/at	-	-	Internal	-	●	1 RU
SF550X-48MP-K9-xx	-	48	-	-	-	-	-	2	2	48	16	740 W	af/at	-	-	Internal	-	●	1 RU
SG550X-24-K9-xx	-	-	24	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550X-24P-K9-xx	-	-	24	-	-	-	-	2	2	24	8	195 W	af/at	-	-	Internal	-	●	1 RU
SG550X-24MP-K9-xx	-	-	24	-	-	-	-	2	2	24	8	382 W	af/at	-	-	Internal	-	●	1 RU
SG550X-24MPP-K9-xx	-	-	24	-	-	-	-	2	2	24	8	740 W	af/at	-	-	Internal	-	●	1 RU
SG550X-48-K9-xx	-	-	48	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550X-48P-K9-xx	-	-	48	-	-	-	-	2	2	48	16	382 W	af/at	-	-	Internal	-	●	1 RU
SG550X-48MP-K9-xx	-	-	48	-	-	-	-	2	2	48	16	740 W	af/at	-	-	Internal	-	●	1 RU
SG550XG-8F8T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	8	8	-	-	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-24T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	22	-	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-24F-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	22	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-48T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	46	-	2	-	-	-	-	-	-	Internal	-	●	1 RU

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Cisco FindIT Network Management: Manage a Network, Not a Collection of Devices

Maintaining a business network is difficult without the right tools. The **Cisco FindIT Network Management** is purpose-built for managing networks of Cisco SF/SG Switches. It lets you proactively manage the network instead of just reacting to events. Cisco FindIT Network Management is the perfect addition to your business's network.

Cisco FindIT Network Management supports two deployment models: full-time network management with the **Cisco FindIT Network Manager and Probe**, and discovering and managing the network on the go with the **Cisco FindIT Network Discovery Utility**.

Cisco FindIT Network Manager and Probe: Easy Network Management

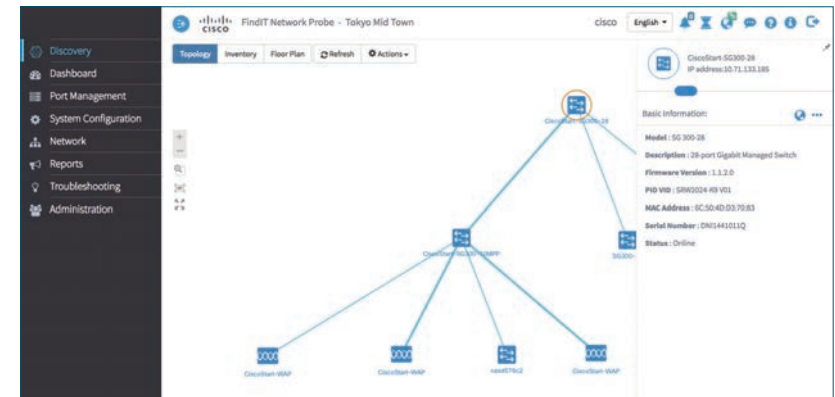
The **Cisco FindIT Network Manager and Probe** are designed to manage Cisco SF/SG Switches, Cisco Wireless Access Points (WAP), and Cisco RV Series routers. You can configure system information, wireless networks, virtual LANs, and Ethernet switching in a single interface. And you can monitor network performance with a customizable dashboard. Automatic network discovery comes with a topology diagram and an inventory report.

In addition, you get:

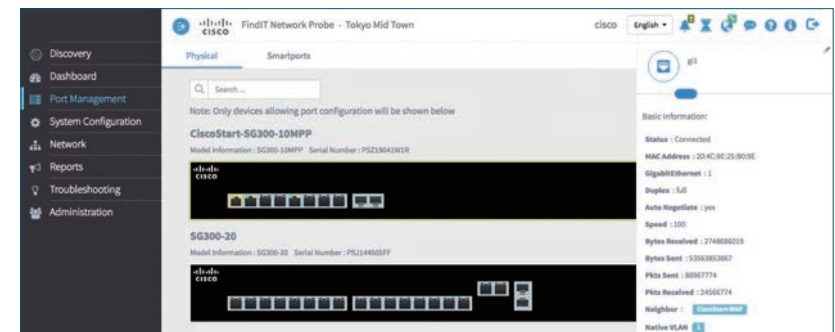
- Automatic firmware updates for network devices
- Detailed lifecycle reports showing maintenance status and end-of-life bulletins
- Integration with the Cisco Active Advisor
- Remote access to sites without requiring a VPN
- One-click collection of diagnostic data for technical support

Cisco FindIT Network Manager and Probe Device Licenses

Product SKU	Description
LS-FINDITNM-15-1Y=	15-device license - 1 year
LS-FINDITNM-25-1Y=	25-device license - 1 year
LS-FINDITNM-50-1Y=	50-device license - 1 year



Discovery



Port Management

Try It for Free

Cisco FindIT Network Manager and Probe are implemented as a software product on Oracle VirtualBox, VMware ESXi, and so on. **Up to 10 Cisco SF/SG Switches** may be managed in Evaluation Mode without a license.

To download the software, visit the following web site:

 <http://www.cisco.com/go/findit>



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Cisco FindIT Network Discovery Utility: Handy Plug-In

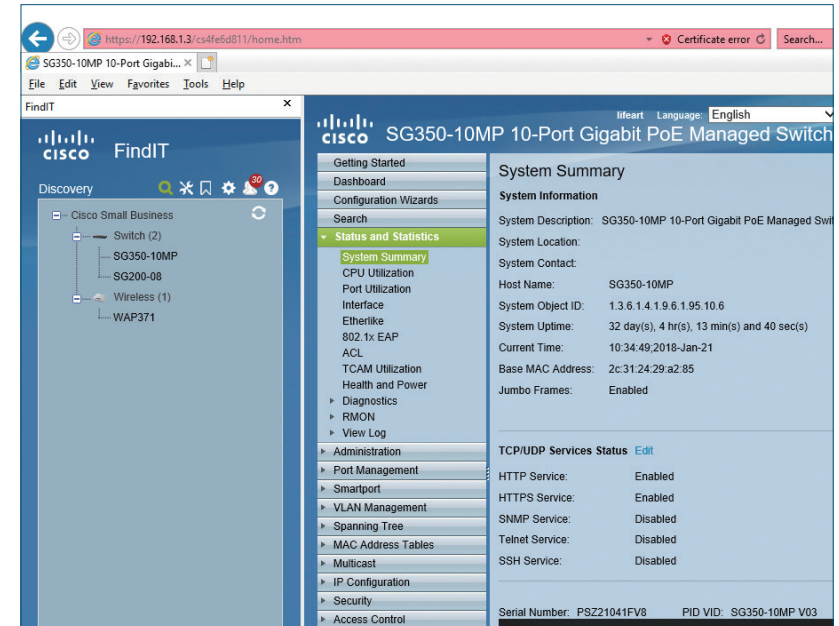
The Cisco FindIT Network Discovery Utility can be used by network administrators on the go. It integrates with your web browser and allows you to easily discover Cisco SF/SG Switches and Cisco Wireless Access Points (WAP), display detailed information about devices, and click to download firmware updates.

The Cisco FindIT Network Discovery Utility runs on Apple Safari, Google Chrome, Microsoft Internet Explorer, and Mozilla Firefox browsers on Microsoft Windows and Apple OS X. It provides:

- Automatic discovery and information display for Cisco SF/SG Switches and Cisco Wireless Access Points (WAP)
- Automatic discovery and one-click downloads for firmware updates
- Support and maintenance information for discovered devices
- Integration with the Cisco Active Advisor
- Direct access to the Small Business Support Center

To download the software, visit the following web site:

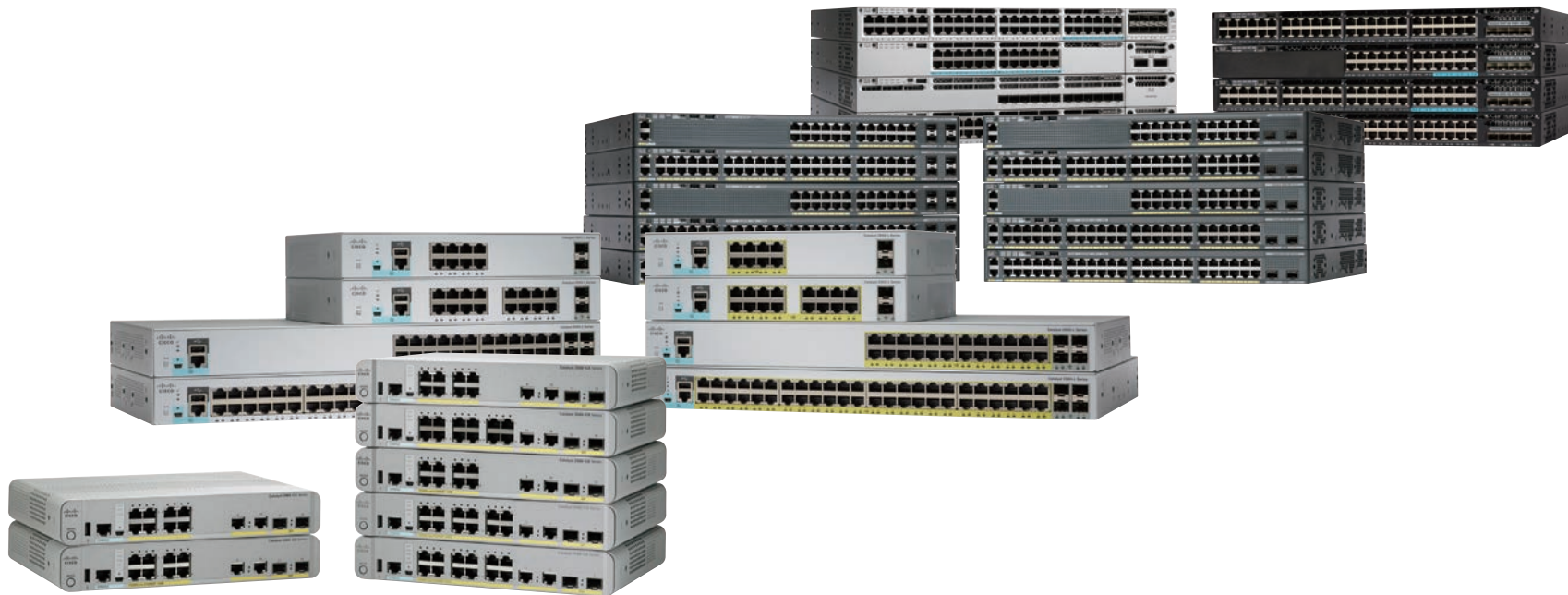
 <http://www.cisco.com/go/findit>




Enterprise Networks Switching

The **Cisco Catalyst Switches** provide the performance and features required for nearly any deployment, from traditional small workgroups, wiring closets, and network cores, to highly virtualized and converged corporate data

centers. Working together, they are the building blocks of an integrated network that delivers scalable and intelligent services protecting, optimizing, and growing your network as your business needs evolve.



Lineup (in this catalog)

- Cisco Catalyst 2960-CX/3560-CX Series

Compact layer 2 and layer 3 access switches that provide enterprise features of a larger Cisco switch without using a lot of physical space.

- Cisco Catalyst 2960-L Series

High value layer 2 access switches that provide enhanced network security, network reliability, and operational efficiency.

- Cisco Catalyst 2960-X Series

Stackable layer 2 and layer 3 access switches that provide smart, simple, scalable, and secure services for enterprise-class networks.

- Cisco Catalyst 3650/3850 Series

Stackable layer 2 and layer 3 access switches that provide the foundation for full wired and wireless convergence on a single platform.

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Modular Core	<p>Catalyst 6500/6800</p>		
Fixed Core	<p>Catalyst 3850 Fiber</p>	<p>Catalyst 4500-X</p>	<p>Catalyst 9500</p>
DNA Access	<p>Catalyst 3850</p>	<p>Catalyst 4500E</p>	<p>Catalyst 9400</p>
	<p>Catalyst 3650</p>		<p>Catalyst 9300</p>
Access	<p>Catalyst 2960-Plus</p>	<p>Catalyst 2960-X</p>	
Access/Compact	<p>Catalyst 2960-L</p>		
Compact	<p>Catalyst 2960-CX</p>	<p>Catalyst 3560-CX</p>	

Performance & Scalability

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Cisco IOS

The Cisco Catalyst Switches incorporate the **Cisco IOS (Internetwork Operating System)**, which is a high-performance network infrastructure software. **LAN Lite** and **LAN Base** feature sets provide the L2 level features, **IP Lite**, **IP Base**, and **IP Services** feature sets provide the L3 level features, respectively.

Cisco IOS provided with the **Cisco Catalyst 3560-CX/3650/3850 Series** is delivered in a single universal image. The universal image contains the entire Cisco IOS feature sets that can be activated via the **Cisco IOS Upgrade License**.

Cisco IOS Compatibility

Supported Series Name	LAN Lite (LL)	LAN Base (LB)	IP Lite (IPL)	IP Base (IPB)	IP Services (IPS)
Catalyst 2960-CX	-	●	-	-	-
Catalyst 3560-CX	-	-	-	●	●
Catalyst 2960-L	●	-	-	-	-
Catalyst 2960-X	●	●	●*1	-	-
Catalyst 3650	-	●	-	●	●
Catalyst 3850	-	●	-	●	●

*1 Catalyst 2960-XR Series only.

Cisco IOS L2 Features

Feature	LL	LB	IPL	IPB	IPS
IEEE 802.1Q Trunking	●	●	●	●	●
DTP	●	●	●	●	●
UDLD	●	●	●	●	●
VTP	●	●	●	●	●
CDP	●	●	●	●	●
LLDP	●	●	●	●	●
LLDP-MED	●*1	●	●	●	●
STP (Spanning Tree Protocol)	●	●	●	●	●
Flex Link	-	●	●	●	●
EtherChannel	●	●	●	●	●
LACP	●	●	●	●	●
Link State Tracking	●*2	●	●	●	●
Resilient Ethernet Protocol (REP)	-	-	-	●*3	●*3
Per-Port Storm Control	●	●	●	●	●

*1 Catalyst 2960-L Series only.

*2 Catalyst 2960-L Series are to be supported in future software release.

*3 Catalyst 3650/3850 Series are to be supported in future software release.

Cisco IOS L3 Features

Feature	LL	LB	IPL	IPB	IPS
Static Routing	●*1	●	●	●	●
RIP	●*1	-	●	●	●
EIGRP Stub	-	-	●	●	●
EIGRP	-	-	-	-	●
OSPF for Routed Access	-	-	●	●	●
OSPF v2/v3	-	-	-	-	●
BGP	-	-	-	-	●
IS-IS	-	-	-	-	●
Policy Based Routing (PBR)	-	-	●	●	●
VRF-Lite	-	-	-	-	●
PIM Stub	-	-	●	●	●
PIM	-	-	-	-	●
WCCP	-	-	●	●	●
SSO	-	●*2	-	●*3	●*3
NSF	-	-	-	●	●
MPLS	-	-	-	-	●*3

*1 Catalyst 2960-L Series only. *2 Catalyst 3560-CX Series are not supported.

*3 Catalyst 3650/3850 Series are not supported.

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Cisco IOS Managability Features

Feature	LL	LB	IPL	IPB	IPS
SNMP	●	●	●	●	●
RMON	●	●	●	●	●
SPAN	●	●	●	●	●
RSPAN	-	●	●	●	●
TDR	●	●	●	●	●
Smart Ports	●	●	●	●	●
Smart Install (client)	●	●	●	●	●
Smart Install (director)	-	● ^{*1}	-	●	●
Cisco IOS IP SLA (responder)	-	●	●	●	●
Cisco IOS IP SLA (initiator)	-	-	-	●	●
Cisco IOS EEM	-	-	-	●	●
Wireshark	-	-	-	● ^{*2}	● ^{*2}
Netflow-Lite	-	●	●	●	●
Flexible Netflow	-	-	-	●	●
EnergyWise	●	●	●	●	●
GOLD (GOLD-Lite)	●	●	●	●	●
OBFL	●	●	●	●	●

*1 Catalyst 2960-CX/2960-X Series are not supported.

*2 Catalyst 3560-CX Series are not supported.

Cisco IOS QoS Features

Feature	LL	LB	IPL	IPB	IPS
SRR	●	●	●	●	●
Priority Queue	●	●	●	●	●
Auto QoS	● ^{*1}	●	●	●	●
DSCP	● ^{*1}	●	●	●	●
Weighted Tail Drop (WTD)	● ^{*2}	● ^{*3}	-	● ^{*3}	●
Dynamic Buffer Limiting (DBL)	-	-	-	-	-
Control Plane Policing (CoPP)	-	● ^{*4}	-	● ^{*5}	● ^{*5}
Per VLAN Policy	-	-	●	●	●

*1 Cisco Catalyst 2960-L Series are to be supported in future software release.

*2 Catalyst 2960-L Series only. *3 Catalyst 3560/3850 Series only.

*4 Catalyst 2960-CX/2960-X Series are not supported.

*5 Catalyst 3560-CX Series are not supported.

Cisco IOS Security Features

Feature	LL	LB	IPL	IPB	IPS
SSH	●	●	●	●	●
SSL	●	●	●	●	●
SCP	●	●	●	●	●
HTTPS	●	●	●	●	●
TACACS+	●	●	●	●	●
RADIUS	●	●	●	●	●
Port Security	●	●	●	●	●
DHCP Snooping	● ^{*1}	●	●	●	●
Dynamic ARP Inspection (DAI)	● ^{*1}	●	●	●	●
IP Source Guard	-	●	●	●	●
MAC Authentication Bypass for Voice	●	●	●	●	●
Private VLAN Edge	●	●	●	●	●
Private VLAN	-	-	●	●	●
Layer 2 - 4 ACL	-	●	●	●	●
Router ACL	-	● ^{*2}	●	●	●
VLAN ACL	● ^{*1}	-	●	●	●
Time Range ACL	-	●	●	●	●
Web Authentication	● ^{*1}	●	●	●	●
TrustSec SXP	-	●	●	●	●
TrustSec SGT/SGACL	-	● ^{*2}	●	●	●
MACsec	-	-	-	●	●
NEAT	-	●	●	●	●

*1 Catalyst 2960-L Series only.

*2 Catalyst 3650/3850 Series are not supported.



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Compact Switches You Can Use Anywhere

The [Cisco Catalyst 2960-CX and 3560-CX Series](#) compact switches easily extend your Cisco Catalyst switching infrastructure outside the wiring closet to enable new workspaces, extend wireless LANs, and connect Power over Ethernet (PoE) devices. These fanless, small form-factor switches are ideal for space-constrained deployments where multiple cable runs would be challenging.

With increased bandwidth, double the PoE capacity, faster CPU, and more memory, Cisco Catalyst 2960-CX and 3560-CX bring a multifold improvement in performance to the Cisco Catalyst Compact Switch product line. They offer many smart and innovative features for management, simplicity, and scale.

Highlights

- Cisco IOS [LAN Base](#) Image (Catalyst 2960-CX), Cisco IOS universal image ([IP Base](#), upgradable to IP services, Catalyst 3560-CX)
- Multigigabit downlinks (Catalyst 3560-CX-8XPD)
- 10 GB SFP+ uplinks (Catalyst 3560-CX-8XPD/12PD)
- PoE+ output (PSE models)
- PoE pass-through (60 W PoE Input, Catalyst 3560CX-8PT)
- New DC powering option for deployment in subways, buses, and trains to power access points
- Perpetual PoE for powering a powered device even when the device is booting
- Stylish, fan-less design and silent operation
- [Cisco Digital Network Architecture \(DNA\)](#)-ready: Supports [Cisco Net-Flow Lite](#) for application visibility at the access network, and so on



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Cisco Catalyst 2960-CX Series

Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks		Uplinks			PoE					AC Power	Rack Mount
			GE	mGig	GE	SFP	SFP/SFP+	Ports	Power Budget	IEEE 802.3	Input Ports	Pass through		
WS-C2960CX-8TC-L	CON-SMBS-WSC28TCL	LAN Base	8	-	2	2	-	-	-	-	-	-	Internal	- ^{*1}
WS-C2960CX-8PC-L	CON-SMBS-WSC28PCL	LAN Base	8	-	2	2	-	8	124 W	af/at	-	-	Internal	- ^{*1}

*1 Rack Mounting Brackets (RCKMNT-19-CMPCT=/RCKMNT-23-CMPCT=) are required.

Cisco Catalyst 3560-CX Series

Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks		Uplinks			PoE					AC Power	Rack Mount
			GE	mGig	GE	SFP	SFP/SFP+	Ports	Power Budget	IEEE 802.3	Input Ports	Pass through		
WS-C3560CX-8TC-S	CON-SMBS-WSC38TCS	IP Base	8	-	2	2	-	-	-	-	-	-	Internal	- ^{*2}
WS-C3560CX-8PT-S	CON-SMBS-WSC356CT	IP Base	8	-	2	-	-	8	146 W	af/at	2	●	External ^{*1}	- ^{*2}
WS-C3560CX-8PC-S	CON-SMBS-WSC38PCS	IP Base	8	-	2	2	-	8	240 W	af/at	-	-	Internal	- ^{*2}
WS-C3560CX-8XPD-S	CON-SMBS-WSC356CD	IP Base	6	2	-	-	2	8	240 W	af/at	-	-	Internal	- ^{*2}
WS-C3560CX-12TC-S	CON-SMBS-WSC312TC	IP Base	12	-	2	2	-	-	-	-	-	-	Internal	- ^{*2}
WS-C3560CX-12PC-S	CON-SMBS-WSC312PC	IP Base	12	-	2	2	-	12	240 W	af/at	-	-	Internal	- ^{*2}
WS-C3560CX-12PD-S	CON-SMBS-WSC312PD	IP Base	12	-	2	-	2	12	240 W	af/at	-	-	Internal	- ^{*2}

*1 Power Adapter (PWR-ADPT=/PWR-ADPT-DC=) is required when not using PoE receiving.

*2 Rack Mounting Brackets (RCKMNT-19-CMPCT=/RCKMNT-23-CMPCT=) are required. Optional Magnet and Mounting Tray (CMPCT-MGNT-TRAY=) is available.

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Cisco IOS Upgrade License for Cisco Catalyst 3560-CX Series*1

Product SKU	Description
L-C3560CX-12-S-E	IP Base to IP Services RTU License

*1 L-C3560CX-RTU= is required.

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 Cisco Catalyst Compact Switches Comparison

Cisco Catalyst 2960-CG & 2960-CX Series Compact Switches

Parameter	Feature	2960-CG	2960-CX
Ports	Uplinks	2 x GE/SFP	2 x GE & 2 x SFP
	Downlinks	8 x GE	8 x GE
PoE	PoE	-	124 W PoE+
	Perpetual PoE	-	●
Hardware	DRAM, Flash	128 MB, 64 MB	512 MB, 128 MB

Cisco Catalyst 3560-CG & 3560-CX Series Compact Switches

Parameter	Feature	3560-CG	3560-CX
Ports	Uplinks	2 x GE, 2 x SFP	2 x GE & 2 x SFP, 2 x GE & 2 x SFP+
	Downlinks	8 x GE	8 x GE, 12 x GE, 6 xGE & 2 x mGig
PoE	PoE	124 W PoE+	240 W PoE+
	Perpetual PoE	-	●
	PoE Pass-Through	1 x UPOE, 23.8 W	2 x UPOE, 144.8 W
Software	Cisco IOS	IP Base Only	IP Base, IP Services
Hardware	DRAM, Flash	128 MB, 64 MB	512 MB, 128 MB
Other	Security	802.1X, MACsec	802.1X, MACsec
	AVC	NO	NetFlow Lite
	IPv6	Basic	Enhanced

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Why 2960-L?

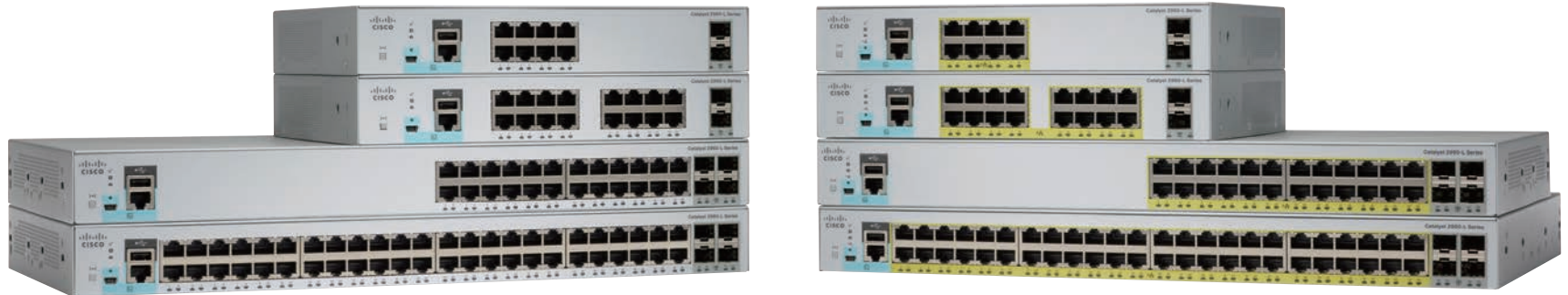
Build Your Enterprise-Class Network with Simplicity and Value

The **Cisco Catalyst 2960-L Series** switches are fixed-configuration, Gigabit Ethernet switches that provide enterprise-class access switching for branch offices, out-of-the-wiring-closet applications, and critical Internet of Things (IoT) deployments, as well as small and medium-sized businesses. They operate on Cisco IOS Software and support simple device management as well as network management.

The Catalyst 2960-L Series provides easy device onboarding, configuration, monitoring, and troubleshooting. These fully managed switches offer advanced Layer 2 and basic Layer 3 features as well as Power over Ethernet Plus (PoE+) power. Catalyst 2960-L Series delivers enhanced network security, network reliability, and operational efficiency.

Highlights

- Cisco IOS Enhanced **LAN Lite** Image: Supports basic layer 3 features with static routing and Routing Information Protocol (RIP), and security with 802.1X support for connected devices, Switched Port Analyzer (SPAN), and Bridge Protocol Data Unit (BPDU) Guard
- PoE+ output (PSE models)
- Perpetual PoE for powering a powered device even when the device is booting
- Fanless operation with operating temperature up to 45 °C (select models)
- Compact design with a depth of less than 11.5 inches
- Device management support with: Intuitive web UI via **Cisco Configuration Professional for Catalyst**, over-the-air access via Bluetooth, Command-Line Interface (CLI), Simple Network Management Protocol (SNMP), RJ-45 or USB console access, and virtual stacking



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Product SKU ^{*1}	Service (CSE) SKU	Cisco IOS	Downlinks	Uplinks			PoE			AC Power	Fanless	Rack Mount
			GE	GE	SFP	SFP/SFP+	Ports	Power Budget	IEEE 802.3			
WS-C2960L-8TS-LL	CON-SMBS-WSC296TW	LAN Lite	8	-	2	-	-	-	-	Internal	●	- ^{*2}
WS-C2960L-8PS-LL	CON-SMBS-WSC29606	LAN Lite	8	-	2	-	8	67 W	af/at	Internal	●	- ^{*2}
WS-C2960L-16TS-LL	CON-SMBS-WSC2966L	LAN Lite	16	-	2	-	-	-	-	Internal	●	- ^{*2}
WS-C2960L-16PS-LL	CON-SMBS-WSC2969S	LAN Lite	16	-	2	-	16	120 W	af/at	Internal	●	- ^{*2}
WS-C2960L-24TS-AP	CON-SMBS-WSC296LT	LAN Lite	24	-	4	-	-	-	-	Internal	●	1 RU
WS-C2960L-24PS-AP	CON-SMBS-WSC296LA	LAN Lite	24	-	4	-	24	195 W	af/at	Internal	●	1 RU
WS-C2960L-48TS-AP	CON-SMBS-WSC298LS	LAN Lite	48	-	4	-	-	-	-	Internal	●	1 RU
WS-C2960L-48PS-AP	CON-SMBS-WSC2P6LA	LAN Lite	48	-	4	-	48	370 W	af/at	Internal	-	1 RU

*1 Not orderable in Australia and New Zealand.

*2 Optional Magnet and Mounting Tray (CMPCT-MGNT-TRAY=) is available.

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Why 2960-L?

Why Catalyst 2960-L?

The Cisco Catalyst 2960-L Series leads the competition with:

- **Noiseless, flexible deployment** in a “fanless” design of not only the 8-port model, but also the 16-, 24- and 48-port models, with the only exception being the 48-port PoE unit, the Catalyst 2960-L can be installed in meeting rooms, classrooms, retail stores, and office spaces, which are no-go areas for a traditional switch relying on one or more noisy fans to keep it cool. Additionally, because there are no fans to suck in dust and lint, it can be tucked away in a cupboard or ceiling space, without the need for periodic cleaning, making it even more flexible to deploy.
- **Persistent PoE** reduces the wait time and improves network availability by providing PoE power to IP phones, cameras, and wireless access points, even while the switch is booting up with a new software image.
- **Runs Cisco IOS Software** and supports a rich set of Cisco IOS Software networking features in IPv6, security, and manageability. It also offers unsurpassed energy efficiency and Cisco enhanced limited lifetime warranty, offering lower TCO.

	Catalyst 2960-L	Competitor A	Competitor B	Why Cisco?
No Fans	More deployment flexibility, less cleaning and preventive maintenance, and higher reliability and uptime.	The switch has fans that suck in dust, resulting in limited deployment options and more cleaning and maintenance.	Some of the models have 3 fans.	The Cisco Catalyst switch can be housed in cupboards and cavities with no risk of fans sucking in failure-causing dust.
	People-friendly operation.	Not designed to coexist with people: the warmer it gets, the faster and noisier the fans get.		Allows the switch to share office space with people without being intrusive; ideal for small retail, classrooms, offices.
Persistent PoE/PoE+	Maintains PoE power to attached devices when the switch is rebooted after a software upgrade or other reason.	Ethernet switches can reboot quickly after a software upgrade, in an effort to minimize downtime, but what about the attached IP phone, camera, or access point? Without persistent PoE, they will reboot as well, and only after the switch has finished.		More network uptime: IP phones, cameras, and access points stay powered on when the switch is rebooted after a software upgrade.
Bluetooth and USB	Innovations such as Bluetooth console access and USB type-A slot supporting memory cards for software and configuration transfer.	While offering a USB console port, these switches still require a PC to physically connect. This is not always practical in branch locations, where the switch might be installed in a difficult-to-reach location.		Innovations that provide out-of-band management without requiring a traditional PC to be physically connected; improve uptime and problem resolution time.

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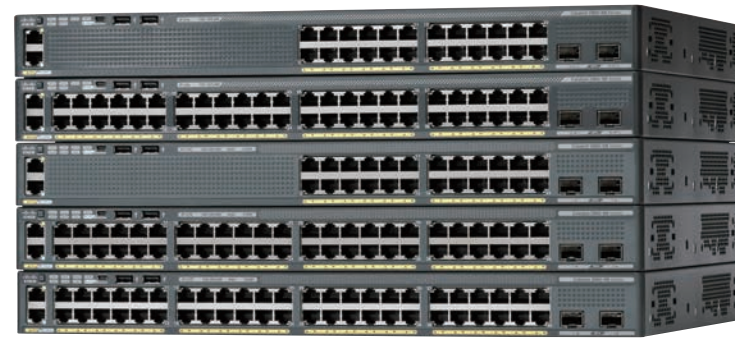
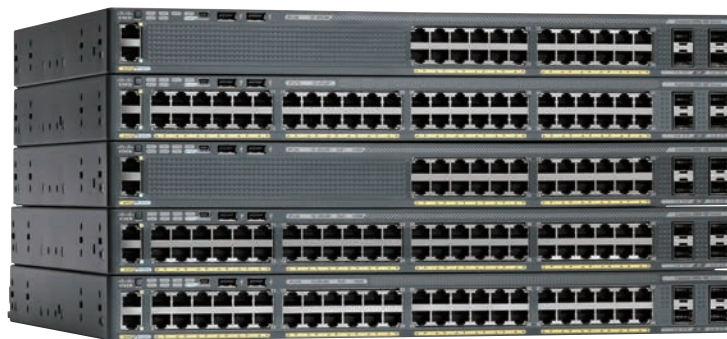
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Enterprise Ready: Cost-Effective Access Switches that Scale

The **Cisco Catalyst 2960-X Series** switches are stackable fixed configuration Gigabit Ethernet switches offering network connectivity for enterprise, mid-market, and branch locations.

They enable reliable and secure business operations with lower total cost of ownership through a range of innovative features, including Cisco FlexStack-Plus and FlexStack-Extended, application visibility and control, Power over Ethernet Plus (PoE+), innovative power management, and Smart Operations.



Highlights

- Cisco IOS **LAN Lite/LAN Base** Image (Catalyst 2960-X)
- Cisco IOS **IP Lite** Image (Catalyst 2960-XR): Supports layer 3 features including Open Shortest Path First OSPF and Virtual Router Redundancy Protocol (VRRP)
- 10 GB SFP+ uplinks (select models)
- PoE+ output (PSE models)
- Perpetual PoE for powering a powered device even when the device is booting

- Resiliency with optional an external redundant power supply (LAN Base models) and dual redundant power supplies (IP Lite models)
- Stacking with Cisco FlexStack-Plus and FlexStack-Extended (LAN Base/IP Lite models)
- Device management support with: Intuitive web UI via **Cisco Configuration Professional for Catalyst**, over-the-air access via Bluetooth, Command-Line Interface (CLI), Simple Network Management Protocol (SNMP), RJ-45 or USB console access
- **Cisco Digital Network Architecture (DNA)**-ready: Supports **Cisco NetFlow Lite** and **Cisco Flexible NetFlow**^{*1} for application visibility at the access network, and so on (LAN Base/IP Lite models)

*1 Cisco ONE Foundation License or Cisco DNA Essentials License is required.

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Product SKU ^{*1}	Service (CSE) SKU	Cisco IOS	Downlinks		Uplinks			PoE			Power Supply			Fanless	Flex Stack	Rack Mount
			GE	GE	SFP	SFP/SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS				
WS-C2960X-24TS-LL	CON-SMBS-WSC296X2	LAN Lite	24	-	2	-	-	-	-	Fixed AC	-	-	-	-	1 RU	
WS-C2960X-48TS-LL	CON-SMBS-WSC296X4	LAN Lite	48	-	2	-	-	-	-	Fixed AC	-	-	-	-	1 RU	
WS-C2960X-24TS-L	CON-SMBS-WSC296XT	LAN Base	24	-	4	-	-	-	-	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-24TD-L	CON-SMBS-WSC24TDL	LAN Base	24	-	-	2	-	-	-	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-24PSQ-L	CON-SMBS-WSC224QL	LAN Base	24	2	2	-	8	110 W	af/at	Fixed AC	-	-	●	-	1 RU	
WS-C2960X-24PS-L	CON-SMBS-WSC224SL	LAN Base	24	-	4	-	24	370 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-24PD-L	CON-SMBS-WSC604DL	LAN Base	24	-	-	2	24	370 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48TS-L	CON-SMBS-WSC248TS	LAN Base	48	-	4	-	-	-	-	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48TD-L	CON-SMBS-WSC298DL	LAN Base	48	-	-	2	-	-	-	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48LPS-L	CON-SMBS-WSC248SL	LAN Base	48	-	4	-	48	370 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48LPD-L	CON-SMBS-WSC48LPD	LAN Base	48	-	-	2	48	370 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48FPS-L	CON-SMBS-WSC294SL	LAN Base	48	-	4	-	48	740 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960X-48FPD-L	CON-SMBS-WSC296XL	LAN Base	48	-	-	2	48	740 W	af/at	Fixed AC	●	-	-	•	1 RU	
WS-C2960XR-24TS-I	CON-SMBS-WS296X24	IP Lite	24	-	4	-	-	-	-	250 W AC	-	●	-	•	1 RU	
WS-C2960XR-24TD-I	CON-SMBS-WSC296TD	IP Lite	24	-	-	2	-	-	-	250 W AC	-	●	-	•	1 RU	
WS-C2960XR-24PS-I	CON-SMBS-WSC296PS	IP Lite	24	-	4	-	24	370 W	af/at	640 W AC	-	●	-	•	1 RU	
WS-C2960XR-24PD-I	CON-SMBS-WSC296PD	IP Lite	24	-	-	2	24	370 W	af/at	640 W AC	-	●	-	•	1 RU	
WS-C2960XR-48TS-I	CON-SMBS-WS296X48	IP Lite	48	-	4	-	-	-	-	250 W AC	-	●	-	•	1 RU	
WS-C2960XR-48TD-I	CON-SMBS-WSC2968T	IP Lite	48	-	-	2	-	-	-	250 W AC	-	●	-	•	1 RU	
WS-C2960XR-48LPS-I	CON-SMBS-WSC29648	IP Lite	48	-	4	-	48	370 W	af/at	640 W AC	-	●	-	●	1 RU	
WS-C2960XR-48LPD-I	CON-SMBS-W296X48L	IP Lite	48	-	-	2	48	370 W	af/at	640 W AC	-	●	-	●	1 RU	
WS-C2960XR-48FPS-I	CON-SMBS-WSC296FP	IP Lite	48	-	4	-	48	740 W	af/at	1025 W AC	-	●	-	●	1 RU	
WS-C2960XR-48FPD-I	CON-SMBS-W296X48F	IP Lite	48	-	-	2	48	740 W	af/at	1025 W AC	-	●	-	●	1 RU	

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Cisco Redundant Power System (RPS) 2300

Product SKU	Description
PWR-RPS2300	Cisco RPS 2300 Chassis (No Power Supply)
C3K-PWR-750WAC	Cisco RPS 2300 750 W AC Power Supply
CAB-RPS2300-E=	Cisco RPS 2300 cable

Cisco FlexStack Modules

Product SKU	Description
C2960X-STACK	Cisco FlexStack-Plus Module
C2960X-FIBER-STK <small>NEW</small>	Cisco FlexStack-Extended Fiber Module
C2960X-HYBRID-STK <small>NEW</small>	Cisco FlexStack-Extended Hybrid Module

Power Supply Modules

Product SKU	Description
PWR-C2-250WAC	250 W AC Power Supply Module
PWR-C2-640WAC	640 W AC Power Supply Module
PWR-C2-1025WAC	1025 W AC Power Supply Module



TIP Cisco FlexStack-Plus & FlexStack-Extended

The **Cisco FlexStack-Plus** provides stacking of **up to eight** Cisco Catalyst 2960-X or 2960-XR Series switches with the optional **Cisco FlexStack-Plus** module.

The **Cisco FlexStack-Extended** enables a **long-distance out-of-the wiring-closet stack option (floor to floor)**. It provides stacking of **up to eight** Cisco Catalyst 2960-X or 2960-XR Series switches with the optional **Cisco FlexStack-Extended** module.

Cisco FlexStack-Plus Supported Combinations*1

Stack Member	Catalyst 2960-X LAN Base	Catalyst 2960-XR IP Lite
Catalyst 2960-X LAN Base	●	-
Catalyst 2960-XR IP Lite	-	●

Cisco FlexStack-Extended Supported Combinations

Stack Member	Catalyst 2960-X LAN Base	Catalyst 2960-XR IP Lite
Catalyst 2960-X LAN Base	●	-
Catalyst 2960-XR IP Lite	-	●

Cisco FlexStack-Plus Scalability & Performance*1

Stack Member	Stack Bandwidth	Stack Limit
Catalyst 2960-X LAN Base	80 Gbps	8
Catalyst 2960-XR IP Lite	80 Gbps	8

Cisco FlexStack-Extended Scalability & Performance

Stack Member	Stack Bandwidth	Stack Limit
Catalyst 2960-X LAN Base	40 Gbps	8
Catalyst 2960-XR IP Lite	40 Gbps	8

*1 FlexStack-Plus is backward compatible with FlexStack. Up to four Catalyst 2960-X LAN Base switches and Catalyst 2960-S/SF LAN Base switches can be stacked.

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Converged Wired and Wireless Access on A Single Platform

The **Cisco Catalyst 3650/3850 Series** switches are the next generation of enterprise-class stackable access and aggregation layer switches that provide the foundation for full convergence between wired and wireless on a single platform.



The new Cisco Unified Access Data Plane (UADP) Application-Specific Integrated Circuit (ASIC) powers the switch and enables uniform wired-wireless policy enforcement, application visibility, flexibility, and application optimization. This convergence is built on the resilience of the new and improved Cisco StackWise-160/480 technology.



Highlights

- Cisco IOS XE Universal Image (LAN Base/IP Base/IP Services)
- **Cisco Unified Access Data Plane (UADP)** Application-Specific Integrated Circuit (ASIC)
- Integrated wireless controller capability with: Up to 20 or 40 Gbps of wireless capacity per switch, support for up to 50 access points and 1,000 wireless clients (Catalyst 3650) or 100 access points and 2,000 wireless clients (Catalyst 3850) on each switching entity (switch or stack)
- Multigigabit downlinks (select models)
- Fixed uplinks with 4 x 1 GE, 2 x 10 GE SFP+, 4 x 10 GE SFP+, 8 x 10 GE SFP+, or 2 x 40 GE QSFP (Catalyst 3650)
- Optional uplink modules with 4 x 1 GE SFP, 2 x 10 GE SFP+, 4 x 10 GE SFP+, 8 x 10 GE SFP+, or 2 x 40 GE QSFP (Catalyst 3850, all copper models & most fiber models)
- Fixed uplinks with 40 GE QSFP (Catalyst 3850, select fiber models)
- PoE+ output (PSE models)
- 60 W PoE output (select PSE models)
- Resiliency with optional an external redundant power supply (Catalyst 3850, mini models) and dual redundant power supplies (Catalyst 3650/3850, except mini models)
- Cisco StackPower technology provides power stacking among stack members for power redundancy (Catalyst 3850)
- Stacking with Cisco StackWise-160 (Catalyst 3650) and Cisco StackWise-480 (Catalyst 3850)
- authenticating and encrypting packets between switches and endpoints: MACsec-128 (all models) and MACsec-256 (Catalyst 3850, Multigigabit and 10 GE fiber models)
- **Cisco Digital Network Architecture (DNA)**-ready: Cisco DNA services can be delivered through Cisco ONE or Cisco DNA Licenses

Cisco Catalyst 3650/3850 Series



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Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks				Fixed Uplinks			PoE				Power Supply			Rack Mount
			GE	mGig	SFP	SFP/SFP+	SFP	SFP/SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	
WS-C3650-24TS-L	CON-SMBS-WSC3652TS	LAN Base	24	-	-	-	4	-	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24TS-S	CON-SMBS-WS6524SS	IP Base	24	-	-	-	4	-	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24TS-E	CON-SMBS-WS5024SE	IP Services	24	-	-	-	4	-	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24TD-L	CON-SMBS-WSC3652L	LAN Base	24	-	-	-	2	2	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24TD-S	CON-SMBS-WSC365BU	IP Base	24	-	-	-	2	2	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24TD-E	CON-SMBS-WSC365TE	IP Services	24	-	-	-	2	2	-	-	-	-	-	250 W AC	-	●	1 RU
WS-C3650-24PS-L	CON-SMBS-WSC365SL	LAN Base	24	-	-	-	4	-	-	24	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-24PS-S	CON-SMBS-WSC3652S	IP Base	24	-	-	-	4	-	-	24	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-24PS-E	CON-SMBS-WS6524PS	IP Services	24	-	-	-	4	-	-	24	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-24PDM-L	CON-SMBS-WSC365ML	LAN Base	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	●	-	1 RU
WS-C3650-24PDM-S	CON-SMBS-WSC365PS	IP Base	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	●	-	1 RU
WS-C3650-24PDM-E	CON-SMBS-WSC365ME	IP Services	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	●	-	1 RU
WS-C3650-24PD-L	CON-SMBS-WSC364DL	LAN Base	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-24PD-S	CON-SMBS-WSC365PDS	IP Base	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-24PD-E	CON-SMBS-WSC3652DE	IP Services	24	-	-	-	2	2	-	24	-	390 W	af/at	640 W AC	-	●	1 RU

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Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks				Fixed Uplinks			PoE				Power Supply			Rack Mount
			GE	mGig	SFP	SFP/SFP+	SFP	SFP/SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	
WS-C3650-48TS-L	CON-SMBS-WSC36TSL	LAN Base	48	-	-	-	4	-	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TS-S	CON-SMBS-WSC3654T	IP Base	48	-	-	-	4	-	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TS-E	CON-SMBS-WS5048SE	IP Services	48	-	-	-	4	-	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TD-L	CON-SMBS-WS6548DL	LAN Base	48	-	-	-	2	2	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TD-S	CON-SMBS-WSC368TD	IP Base	48	-	-	-	2	2	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TD-E	CON-SMBS-WC3654UA	IP Services	48	-	-	-	2	2	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TQ-L	CON-SMBS-WC365T48	LAN Base	48	-	-	-	-	4	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TQ-S	CON-SMBS-WS3654QS	IP Base	48	-	-	-	-	4	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48TQ-E	CON-SMBS-WSC36TQE	IP Services	48	-	-	-	-	4	-	-	-	-	af/at	250 W AC	-	●	1 RU
WS-C3650-48PS-L	CON-SMBS-WS6548SL	LAN Base	48	-	-	-	4	-	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PS-S	CON-SMBS-WSC36PSS	IP Base	48	-	-	-	4	-	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PS-E	CON-SMBS-WSC3654SE	IP Services	48	-	-	-	4	-	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PD-L	CON-SMBS-WS365048	LAN Base	48	-	-	-	2	2	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PD-S	CON-SMBS-WC3654PS	IP Base	48	-	-	-	2	2	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PD-E	CON-SMBS-WSC365DE	IP Services	48	-	-	-	2	2	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PQ-L	CON-SMBS-WSC365QL	LAN Base	48	-	-	-	-	4	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PQ-S	CON-SMBS-WSC36PQS	IP Base	48	-	-	-	-	4	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48PQ-E	CON-SMBS-WSC365QE	IP Services	48	-	-	-	-	4	-	48	-	390 W	af/at	640 W AC	-	●	1 RU
WS-C3650-48FS-L	CON-SMBS-WSC3654	LAN Base	48	-	-	-	4	-	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FS-S	CON-SMBS-WSC654	IP Base	48	-	-	-	4	-	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FS-E	CON-SMBS-WS5048FS	IP Services	48	-	-	-	4	-	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FD-L	CON-SMBS-WS6548FD	LAN Base	48	-	-	-	2	2	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FD-S	CON-SMBS-WSC365FD	IP Base	48	-	-	-	2	2	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FD-E	CON-SMBS-WS3654UA	IP Services	48	-	-	-	2	2	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FQM-L	CON-SMBS-WSC365FQ	LAN Base	48	-	-	-	-	4	-	48	-	775 W	af/at	975 W AC	●	-	1 RU
WS-C3650-48FQM-S	CON-SMBS-WSC365QS	IP Base	48	-	-	-	-	4	-	48	-	775 W	af/at	975 W AC	●	-	1 RU
WS-C3650-48FQM-E	CON-SMBS-WSC3658Q	IP Services	48	-	-	-	-	4	-	48	-	775 W	af/at	975 W AC	●	-	1 RU
WS-C3650-48FQ-L	CON-SMBS-WS3654FQ	LAN Base	48	-	-	-	-	4	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FQ-S	CON-SMBS-WSC354QS	IP Base	48	-	-	-	-	4	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU
WS-C3650-48FQ-E	CON-SMBS-WC3654	IP Services	48	-	-	-	-	4	-	48	-	775 W	af/at	1025 W AC	-	●	1 RU

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Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks				Fixed Uplinks			PoE				Power Supply			Rack Mount
			GE	mGig	SFP	SFP/SFP+	SFP	SFP/SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	
WS-C3650-8X24PD-L	WS-C3650-8X24PD-L	LAN Base	24	8	-	-	-	2	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3650-8X24PD-S	CON-SMBS-SWC3DPX2	IP Base	24	8	-	-	-	2	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3650-8X24PD-E	CON-SMBS-WSEC3658	IP Services	24	8	-	-	-	2	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3650-8X24UQ-L	CON-SMBS-WSC365SU	LAN Base	24	8	-	-	-	4	-	24	24	820 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-8X24UQ-S	CON-SMBS-WSC3656Q	IP Base	24	8	-	-	-	4	-	24	24	820 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-8X24UQ-E	CON-SMBS-WSC3656U	IP Services	24	8	-	-	-	4	-	24	24	820 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48FD-L	CON-SMBS-WSLC3651	LAN Base	48	12	-	-	-	2	-	48	-	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48FD-S	CON-SMBS-WSC36FDX	IP Base	48	12	-	-	-	2	-	48	-	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48FD-E	CON-SMBS-WSFC3651	IP Services	48	12	-	-	-	2	-	48	-	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UQ-L	CON-SMBS-WSC3653W	LAN Base	48	12	-	-	-	4	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UQ-S	CON-SMBS-WS36513C	IP Base	48	12	-	-	-	4	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UQ-E	CON-SMBS-WSC3658E	IP Services	48	12	-	-	-	4	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UR-L	CON-SMBS-WSC3654X	LAN Base	48	12	-	-	-	8	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UR-S	CON-SMBS-WSC3653X	IP Base	48	12	-	-	-	8	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UR-E	CON-SMBS-WSC3653R	IP Services	48	12	-	-	-	8	-	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UZ-L	CON-SMBS-WSC3658W	LAN Base	48	12	-	-	-	-	2	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UZ-S	CON-SMBS-WSC3658U	IP Base	48	12	-	-	-	-	2	48	48	660 W	af/at	1100 W AC	-	●	1 RU
WS-C3650-12X48UZ-E	CON-SMBS-WSC3655X	IP Services	48	12	-	-	-	-	2	48	48	660 W	af/at	1100 W AC	-	●	1 RU

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Bundles

Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks				Fixed Uplinks			PoE				Power Supply			Rack Mount
			GE	mGig	SFP	SFP/SFP+	SFP	SFP/SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	
WS-C3850-24T-L	CON-SMBS-WSC384TL	LAN Base	24	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24T-S	CON-SMBS-WSC384TS	IP Base	24	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24T-E	CON-SMBS-WSC384TE	IP Services	24	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24P-L	CON-SMBS-WSC384PL	LAN Base	24	-	-	-	-	-	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-24P-S	CON-SMBS-WS-C384PS	IP Base	24	-	-	-	-	-	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-24P-E	CON-SMBS-WSC384PE	IP Services	24	-	-	-	-	-	-	24	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-24U-L	CON-SMBS-WSC8524U	LAN Base	24	-	-	-	-	-	-	24	24	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-24U-S	CON-SMBS-WS8524US	IP Base	24	-	-	-	-	-	-	24	24	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-24U-E	CON-SMBS-WS8524UE	IP Services	24	-	-	-	-	-	-	24	24	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48T-L	CON-SMBS-WSC388TL	LAN Base	48	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-48T-S	CON-SMBS-WSC388TS	IP Base	48	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-48T-E	CON-SMBS-WSC388TE	IP Services	48	-	-	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-48P-L	CON-SMBS-WSC388PL	LAN Base	48	-	-	-	-	-	-	48	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-48P-S	CON-SMBS-WSC388PS	IP Base	48	-	-	-	-	-	-	48	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-48P-E	CON-SMBS-WSC388PE	IP Services	48	-	-	-	-	-	-	48	-	435 W	af/at	715 W AC	-	●	1 RU
WS-C3850-48F-L	CON-SMBS-WSC388FL	LAN Base	48	-	-	-	-	-	-	48	-	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48F-S	CON-SMBS-WSC388FS	IP Base	48	-	-	-	-	-	-	48	-	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48F-E	CON-SMBS-WSC388FE	IP Services	48	-	-	-	-	-	-	48	-	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48U-L	CON-SMBS-WS5048UL	LAN Base	48	-	-	-	-	-	-	48	48	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48U-S	CON-SMBS-WS3548US	IP Base	48	-	-	-	-	-	-	48	48	800 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-48U-E	CON-SMBS-WS3848UE	IP Services	48	-	-	-	-	-	-	48	48	800 W	af/at	1100 W AC	-	●	1 RU

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			GE	mGig	SFP	SFP/SFP+	SFP	SFP/SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	
WS-C3850-24XU-L	CON-SMBS-WSC3852L	LAN Base	-	24	-	-	-	-	-	24	24	580 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-24XU-S	CON-SMBS-WSC3852X	IP Base	-	24	-	-	-	-	-	24	24	580 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-24XU-E	CON-SMBS-WSC385XE	IP Services	-	24	-	-	-	-	-	24	24	580 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-12X48U-L	CON-SMBS-WSC3851L	LAN Base	36	12	-	-	-	-	-	48	48	630 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-12X48U-S	CON-SMBS-WSC385US	IP Base	36	12	-	-	-	-	-	48	48	630 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-12X48U-E	CON-SMBS-WSC385UE	IP Services	36	12	-	-	-	-	-	48	48	630 W	af/at	1100 W AC	-	●	1 RU
WS-C3850-12S-S	CON-SMBS-WSC3851S	LAN Base	-	-	12	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-12S-E	CON-SMBS-WSC385SE	IP Base	-	-	12	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24S-S	CON-SMBS-WSC3854S	IP Base	-	-	24	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24S-E	CON-SMBS-WSC3852E	IP Services	-	-	24	-	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-12XS-S	CON-SMBS-WSC3851X	IP Services	-	-	-	12	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-12XS-E	CON-SMBS-WSC3851E	LAN Base	-	-	-	12	-	-	-	-	-	-	-	350 W AC	-	●	1 RU
WS-C3850-24XS-S	CON-SMBS-WSCX3852	IP Services	-	-	-	24	-	-	-	-	-	-	-	715 W AC	-	●	1 RU
WS-C3850-24XS-E	CON-SMBS-WS850XSE	LAN Base	-	-	-	24	-	-	-	-	-	-	-	715 W AC	-	●	1 RU
WS-C3850-48XS-S	CON-SMBS-WSC08XSS	IP Services	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU
WS-C3850-48XS-E	CON-SMBS-WS508XSE	LAN Base	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU
WS-C3850-48XS-F-S	CON-SMBS-WS50XSFS	IP Base	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU
WS-C3850-48XS-F-E	CON-SMBS-WSC3854E	IP Services	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU

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Cisco IOS XE Upgrade License for Cisco Catalyst 3650 Series*1

Product SKU	Description
L-C3650-24-L-S	LAN Base to IP Base RTU License for 24-port models
L-C3650-24-S-E	IP Base to IP Services RTU License for 24-port models
L-C3650-24-L-E	LAN Base to IP Services RTU License for 24-port models
L-C3650-48-L-S	LAN Base to IP Base RTU License for 48-port models
L-C3650-48-S-E	IP Base to IP Services RTU License for 48-port models
L-C3650-48-L-E	LAN Base to IP Services RTU License for 48-port models

*1 L-C3650-RTU= is required.

Cisco IOS XE Upgrade License for Cisco Catalyst 3850 Series*1

Product SKU	Description
L-C3850-24-L-S	LAN Base to IP Base RTU License for 24-port models
L-C3850-24-S-E	IP Base to IP Services RTU License for 24-port models
L-C3850-24-L-E	LAN Base to IP Services RTU License for 24-port models
L-C3850-48-L-S	LAN Base to IP Base RTU License for 48-port models
L-C3850-48-S-E	IP Base to IP Services RTU License for 48-port models
L-C3850-48-L-E	LAN Base to IP Services RTU License for 48-port models
L-C3850-12-S-E	IP Base to IP Services RTU License for 12-port models

*1 L-C3850-RTU= is required.

Access Point License for Cisco Catalyst 3650/3850 Series*1

Product SKU	Description
L-LIC-CTIOS-1A	1 Access Point Adder License

*1 L-LIC-CT3650-UPG is required for Catalyst 3650.
L-LIC-CT3850-UPG is required for Catalyst 3850.

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Power Supply Modules for Cisco Catalyst 3650 Series

Product SKU	Description
PWR-C2-250WAC	250 W AC Power Supply Module
PWR-C2-640WAC	640 W AC Power Supply Module
PWR-C2-1025WAC	1025 W AC Power Supply Module
PWR-C2-640WDC	640 W DC Power Supply Module
PWR-C1-715WAC	715 W AC Power Supply Module
PWR-C1-1100WAC	1100 W AC Power Supply Module
PWR-C1-440WDC	440 W DC Power Supply Module

Cisco Redundant Power System (RPS) 2300

Product SKU	Description
PWR-RPS2300	Cisco RPS 2300 Chassis (No Power Supply)
C3K-PWR-750WAC	Cisco RPS 2300 750 W AC Power Supply
CAB-RPS2300-E=	Cisco RPS 2300 cable

Cisco StackWise-160 Module for Cisco Catalyst 3650 Series

Product SKU	Description
C3650-STACK-KIT	Cisco StackWise-160 Module

Power Supply Modules for Cisco Catalyst 3850 Series

Product SKU	Description
PWR-C1-350WAC	250 W AC Power Supply Module
PWR-C1-715WAC	640 W AC Power Supply Module
PWR-C1-1100WAC	1025 W AC Power Supply Module
PWR-C1-440WDC	640 W DC Power Supply Module
PWR-C3-750WAC-R	750 W AC Front-to-Back Airflow Power Supply Module for Catalyst 3850-48XS
PWR-C3-750WAC-F	750 W AC Back-to-Front Airflow Power Supply Module for Catalyst 3850-48XS
PWR-C3-750WDC-R	750 W DC Front-to-Back Airflow Power Supply Module for Catalyst 3850-48XS
PWR-C3-750WDC-F	750 W DC Back-to-Front Airflow Power Supply Module for Catalyst 3850-48XS

Network Modules for Cisco Catalyst 3850 Series

Product SKU	Description
C3850-NM-4-1G	4 x SFP Network Module for copper models, 1 GE fiber models
C3850-NM-2-10G	2 x SFP & 2 x SFP/SFP+ Network Module for copper models, 1 GE fiber models
C3850-NM-4-10G	4 x SFP/SFP+ Network Module for 48-port copper models, mGig models, 10 GE fiber models
C3850-NM-8-10G	8 x SFP/SFP+ Network Module for mGig models, 24-port 10 GE fiber models
C3850-NM-2-40G	2 x QSFP Network Module for mGig models, 24-port 10 G fiber models



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Cisco Catalyst 3650 Series Bundles

Product SKU	Service (CSE) SKU	Bundle		
		Model	Access Point Licenses	Cisco IOS
WS-C3650-24PWS-S	CON-SMBS-WSC365WS	WS-C3650-24PS-S	5	IP Base
WS-C3650-24PWD-S	CON-SMBS-WSC3652WD	WS-C3650-24PD-S	5	IP Base
WS-C3650-48PWS-S	CON-SMBS-WSC36548	WS-C3650-48PS-S	5	IP Base
WS-C3650-48PWD-S	CON-SMBS-WS8W654S	WS-C3650-48PD-S	5	IP Base
WS-C3650-48PWQ-S	CON-SMBS-WSCQ3654	WS-C3650-48PQ-S	5	IP Base
WS-C3650-48FWS-S	CON-SMBS-WSC3654W	WS-C3650-48FS-S	5	IP Base
WS-C3650-48FWD-S	CON-SMBS-WSC3654D	WS-C3650-48FD-S	5	IP Base
WS-C3650-48FWQ-S	CON-SMBS-WSC3654Q	WS-C3650-48FQ-S	5	IP Base

Cisco Catalyst 3650 Series Bundles

Product SKU	Service (CSE) SKU	Bundle			
		Model	Network Module	Access Point Licenses	Cisco IOS
WS-C3850-24PW-S	CON-SMBS-WSC24PWS	WS-C3850-24P-S	-	5	IP Base
WS-C3850-24UW-S	CON-SMBS-WSC38524	WS-C3850-24U-S	-	5	IP Base
WS-C3850-24XUW-S	CON-SMBS-WSC382XS	WS-C3850-24XU-S	-	5	IP Base
WS-C3850-48W-S	CON-SMBS-WSC385WS	WS-C3850-48P-S	-	5	IP Base
WS-C3850-48PW-S	CON-SMBS-WSC48PWS	WS-C3850-48F-S	-	5	IP Base
WS-C3850-48UW-S	CON-SMBS-WSC38548	WS-C3850-48U-S	-	5	IP Base
WS-C3850-12X48UW-S	CON-SMBS-WSC3851W	WS-C3850-12X48U-S	-	5	IP Base
WS-C3850-16XS-S	CON-SMBS-WS3850XS	WS-C3850-12XS-S	C3850-NM-4-10G	5	IP Base
WS-C3850-16XS-E	CON-SMBS-WSC3858X	WS-C3850-12XS-E	C3850-NM-4-10G	5	IP Services
WS-C3850-32XS-S	CON-SMBS-WSC385X2	WS-C3850-24XS-S	C3850-NM-8-10G	5	IP Base
WS-C3850-32XS-E	CON-SMBS-WSC3853X	WS-C3850-24XS-E	C3850-NM-8-10G	5	IP Services

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True Zero-Touch Cloud Provisioning, Network Visibility, and Remote Troubleshooting

The **Cisco Meraki MS Cloud Managed Switches** offer true zero-touch provisioning, can be pre-staged and configured entirely from a web browser. The Meraki management experience accelerates and simplifies the work of the network engineer.

Troubleshooting network issues, especially on remote locations, can significantly add to the cost of running this mission critical service. Meraki MS switches provide groundbreaking tools for remote troubleshooting, so that scaling a Meraki network need not mean scaling complexity.

The Meraki MS switches include features for streamlining the work of the network engineer, from deployment to security to troubleshooting.



Highlights

- **Multigigabit Ethernet:** Provide the higher performance demanded by the latest access points over existing cabling.
- **Voice & Video QoS:** Give latency sensitive applications the priority and bandwidth they deserve with configurable QoS.
- **Flexible Stacking:** Simultaneously configure thousands of ports across standalone and physically stacked switches, regardless of location.
- **Network Topology:** View the network in real-time, showing devices and their connections and even monitor network-wide health.
- **Layer 7 Visibility:** Meraki MS switches make it easy to understand how valuable network resources are being used.
- **Remote Live Tools:** Powerful tools for identifying and correcting issues, even from thousands of miles away.
- **Layer 3 Scalability:** Build large, resilient networks using dynamic routing protocols and warm spare technology.
- **Enterprise Security:** Protect the wired network from both external and internal threats.

Cisco Meraki MS Cloud Managed Switches

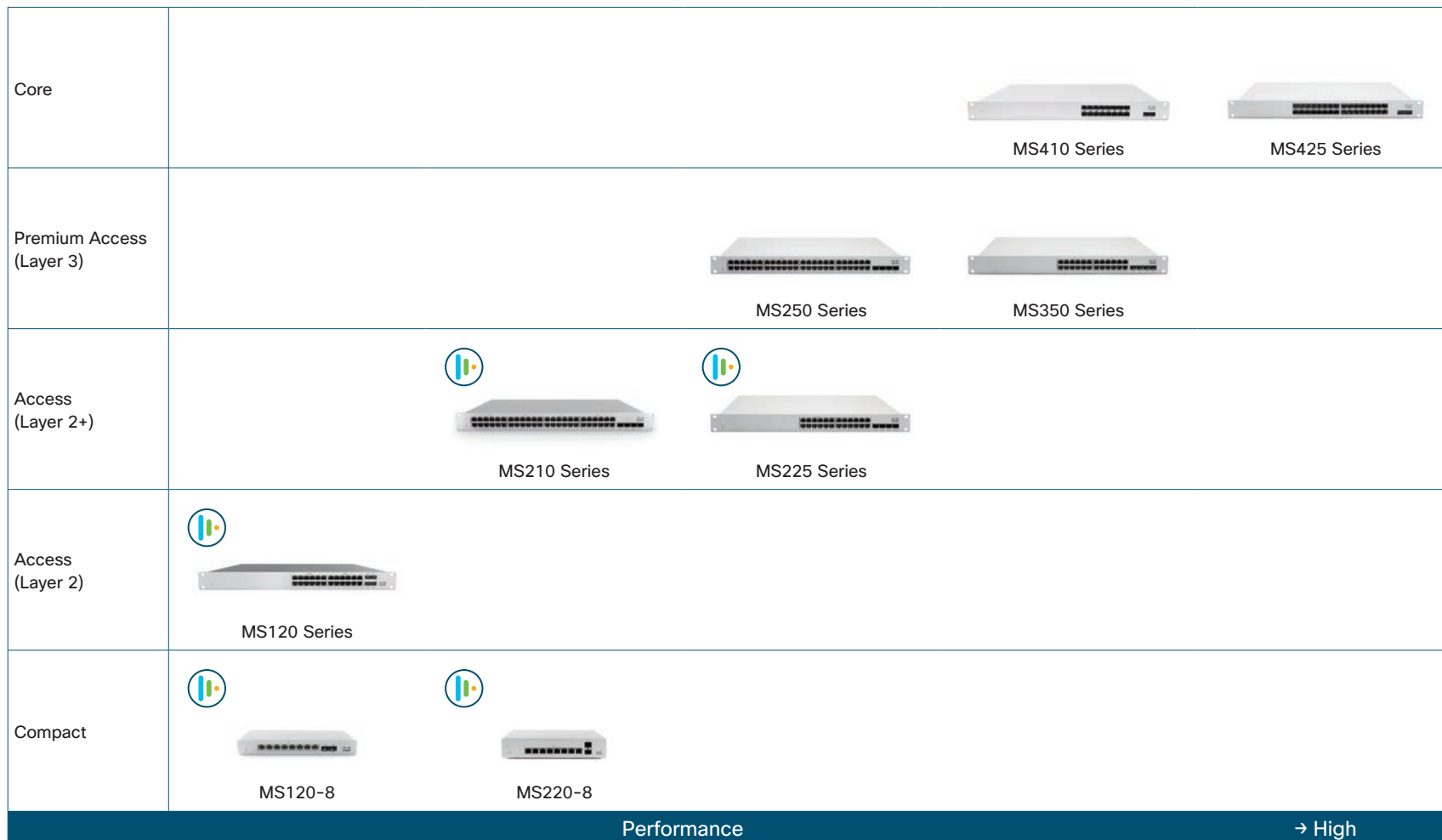


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Cisco Meraki MS120 Compact Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual		Physical		
MS120-8-HW	20 Gbps	8	2	-	-	-	-	External	-	-	●	●	-	- ^{*1}	
MS120-8LP-HW	20 Gbps	8	2	-	8	67 W	af/at	External	-	-	●	●	-	- ^{*1}	
MS120-8FP-HW	20 Gbps	8	2	-	8	124 W	af/at	Internal	-	-	●	●	-	- ^{*1}	

*1 Wall or utility board mountable with included mount hardware.

Cisco Meraki MS220 Compact Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual		Physical		
MS220-8-HW	20 Gbps	8	2	-	-	-	-	Internal	-	-	●	●	-	- ^{*1}	
MS220-8P-HW	20 Gbps	8	2	-	8	124 W	af/at	Internal	-	-	●	●	-	- ^{*1}	

*1 Wall or utility board mountable with included mount hardware.



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Cisco Meraki MS120 Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual		Physical		
MS120-24-HW	56 Gbps	24	4	-	-	-	-	Internal	-	-	●	●	-	●	
MS120-24P-HW	56 Gbps	24	4	-	24	370 W	af/at	Internal	-	-	-	●	-	●	
MS120-48-HW	104 Gbps	48	4	-	-	-	-	Internal	-	-	●	●	-	●	
MS120-48LP-HW	104 Gbps	48	4	-	48	370 W	af/at	Internal	-	-	-	●	-	●	
MS120-48FP-HW <small>NEW</small>	104 Gbps	48	4	-	48	740 W	af/at	Internal	-	-	-	●	-	●	

Cisco Meraki MS210 Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual		Physical		
MS210-24-HW	128 Gbps	24	4	-	-	-	-	Internal	●	-	●	●	80 Gbps	●	
MS210-24P-HW	128 Gbps	24	4	-	24	370 W	af/at	Internal	●	-	-	●	80 Gbps	●	
MS210-48-HW	176 Gbps	48	4	-	-	-	-	Internal	●	-	●	●	80 Gbps	●	
MS210-48LP-HW	176 Gbps	48	4	-	48	370 W	af/at	Internal	●	-	-	●	80 Gbps	●	
MS210-48FP-HW	176 Gbps	48	4	-	48	740 W	af/at	Internal	●	-	-	●	80 Gbps	●	

Cisco Meraki MS225 Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual		Physical		
MS225-24-HW	128 Gbps	24	-	4	-	-	-	Internal	●	-	●	●	80 Gbps	●	
MS225-24P-HW	128 Gbps	24	-	4	24	370 W	af/at	Internal	●	-	●	●	80 Gbps	●	
MS225-48-HW	176 Gbps	48	-	4	-	-	-	Internal	●	-	●	●	80 Gbps	●	
MS225-48LP-HW	176 Gbps	48	-	4	48	370 W	af/at	Internal	●	-	●	●	80 Gbps	●	
MS225-48FP-HW	176 Gbps	48	-	4	48	740 W	af/at	Internal	●	-	●	●	80 Gbps	●	



Cisco Meraki MS Cloud Managed Switches



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Cisco Meraki Enterprise Licenses for Cisco Meraki MS120 Compact Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	5-Years	
LIC-MS120-8-1YR	LIC-MS120-8-3YR	LIC-MS120-8-5YR	LIC-MS120-8-7YR	LIC-MS120-8-10YR	MS120-8
LIC-MS120-8LP-1YR	LIC-MS120-8LP-3YR	LIC-MS120-8LP-5YR	LIC-MS120-8LP-7YR	LIC-MS120-8LP-10YR	MS120-8LP
LIC-MS120-8FP-1YR	LIC-MS120-8FP-3YR	LIC-MS120-8FP-5YR	LIC-MS120-8FP-7YR	LIC-MS120-8FP-10YR	MS120-8FP

Cisco Meraki Enterprise Licenses for Cisco Meraki MS220 Compact Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	5-Years	
LIC-MS220-8-1YR	LIC-MS220-8-3YR	LIC-MS220-8-5YR	LIC-MS220-8-7YR	LIC-MS220-8-10YR	MS220-8
LIC-MS220-8P-1YR	LIC-MS220-8P-3YR	LIC-MS220-8P-5YR	LIC-MS220-8P-7YR	LIC-MS220-8P-10YR	MS220-8P

Cisco Meraki Enterprise Licenses for Cisco Meraki MS120 Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	5-Years	
LIC-MS120-24-1YR	LIC-MS120-24-3YR	LIC-MS120-24-5YR	LIC-MS120-24-7YR	LIC-MS120-24-10YR	MS120-24
LIC-MS120-24P-1YR	LIC-MS120-24P-3YR	LIC-MS120-24P-5YR	LIC-MS120-24P-7YR	LIC-MS120-24P-10YR	MS120-24P
LIC-MS120-48-1YR	LIC-MS120-48-3YR	LIC-MS120-48-5YR	LIC-MS120-48-7YR	LIC-MS120-48-10YR	MS120-48
LIC-MS120-48LP-1YR	LIC-MS120-48LP-3YR	LIC-MS120-48LP-5YR	LIC-MS120-48LP-7YR	LIC-MS120-48LP-10Y	MS120-48LP
LIC-MS120-48FP-1YR	LIC-MS120-48FP-3YR	LIC-MS120-48FP-5YR	LIC-MS120-48FP-7YR	LIC-MS120-48FP-10Y	MS120-48FP



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Cisco Meraki Enterprise Licenses for Cisco Meraki MS210 Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	5-Years	
LIC-MS210-24-1YR	LIC-MS210-24-3YR	LIC-MS210-24-5YR	LIC-MS210-24-7YR	LIC-MS210-24-10YR	MS210-24
LIC-MS210-24P-1YR	LIC-MS210-24P-3YR	LIC-MS210-24P-5YR	LIC-MS210-24P-7YR	LIC-MS210-24P-10YR	MS210-24P
LIC-MS210-48-1YR	LIC-MS210-48-3YR	LIC-MS210-48-5YR	LIC-MS210-48-7YR	LIC-MS210-48-10YR	MS210-48
LIC-MS210-48FP-1YR	LIC-MS210-48FP-3YR	LIC-MS210-48FP-5YR	LIC-MS210-48FP-7YR	LIC-MS210-48FP-10Y	MS210-48LP
LIC-MS210-48LP-1YR	LIC-MS210-48LP-3YR	LIC-MS210-48LP-5YR	LIC-MS210-48LP-7YR	LIC-MS210-48LP-10Y	MS210-48FP

Cisco Meraki Enterprise Licenses for Cisco Meraki MS225 Series

Product SKU					Compatible Models
1-Year	3-Years	5-Years	7-Years	5-Years	
LIC-MS225-24-1YR	LIC-MS225-24-3YR	LIC-MS225-24-5YR	LIC-MS225-24-7YR	LIC-MS225-24-10YR	MS225-24
LIC-MS225-24P-1YR	LIC-MS225-24P-3YR	LIC-MS225-24P-5YR	LIC-MS225-24P-7YR	LIC-MS225-24P-10YR	MS225-24P
LIC-MS225-48-1YR	LIC-MS225-48-3YR	LIC-MS225-48-5YR	LIC-MS225-48-7YR	LIC-MS225-48-10YR	MS225-48
LIC-MS225-48FP-1YR	LIC-MS225-48FP-3YR	LIC-MS225-48FP-5YR	LIC-MS225-48FP-7YR	LIC-MS225-48FP-10Y	MS225-48LP
LIC-MS225-48LP-1YR	LIC-MS225-48LP-3YR	LIC-MS225-48LP-5YR	LIC-MS225-48LP-7YR	LIC-MS225-48LP-10Y	MS225-48FP

Cisco Redundant Power System (RPS) 2300

Product SKU	Description
PWR-RPS2300	Cisco RPS 2300 Chassis (No Power Supply)
C3K-PWR-750WAC	Cisco RPS 2300 750 W AC Power Supply
CAB-RPS2300-E=	Cisco RPS 2300 cable

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Cisco 3504 Wireless Controller



 AIR-CT3504-K9

Optimized for 11ac Wave 2	4 Gbps Max Throughput	150 Max APs	3,000 Max Clients	Central Mode	FlexConnect	Mesh	FlexConnect + Mesh	OfficeExtend
1-port mGig	2-port GE PoE+	2-port GE	Fanless	Desktop	Optional Side-by-Side Rack Mount			

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	Single Point Setup	Mobility Express			
Components	<p>Wireless Access Points (WAP)</p>	<p>Aironet Access Points</p>	<p>Catalyst Switches</p> <p>Aironet Access Points</p>	<p>Wireless Controllers</p> <p>Aironet Access Points</p>	<p>Meraki MR Cloud Managed Access Points</p>
Highlights	<ul style="list-style-type: none"> Supports 16 APs (500 Series WAP) No license requirement 	<ul style="list-style-type: none"> Supports 100 APs, 2,000 clients (Aironet 2800/3800) No license requirement 	<ul style="list-style-type: none"> Supports 100 APs, 2,000 clients (Catalyst 3850) Converged wired and wireless access for operational simplicity and scale 	<ul style="list-style-type: none"> Supports 150 APs, 3,000 clients (WC 3504) Supports various deployment modes: central, distributed, and mesh 	<ul style="list-style-type: none"> Provides unified visibility and control of the entire network via a single dashboard: not only wireless, but also switching, and security appliances
Cisco Start Products	<ul style="list-style-type: none"> Cisco 100 Series Wireless Access Points (WAP)^{*1} Cisco 300 Series Wireless Access Points (WAP) Cisco 500 Series Wireless Access Points (WAP) 	<ul style="list-style-type: none"> Cisco Aironet 1800 Series^{*2} Cisco Aironet 2800 Series Cisco Aironet 3800 Series 	<ul style="list-style-type: none"> Cisco Catalyst 3650 Series Cisco Catalyst 3850 Series 	<ul style="list-style-type: none"> Cisco 3504 Wireless Controller Cisco Aironet 1800 Series Cisco Aironet 2800 Series Cisco Aironet 3800 Series 	<ul style="list-style-type: none"> Cisco Meraki MR20 Cisco Meraki MR30H Cisco Meraki MR33 Cisco Meraki MR42 Cisco Meraki MR42E

*1 Cisco WAP125/131 do not support Single Point Setup.

*2 Cisco Aironet 1815t does not support Mobility Express.

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High-Performance, Easy-to-Deploy, and Highly Secure Business-Class Wireless

Today Wi-Fi is the primary way for mobile access; small to medium-sized businesses are now looking for simple, yet easy-to-deploy Wi-Fi networks where they can provide the best experience to their employees and customers. To stay productive, they need dependable, business-class access to network applications throughout the office.

The [Cisco Wireless Access Points \(WAP\)](#) provide a simple, cost-effective way to extend highly secure, high-performance mobile networking to your employees and guests, so they can stay connected anywhere in the office, regardless of what mobile devices they use.



Highlights

- IEEE 802.11ac Wave 2-compatible (WAP581)
- IEEE 802.11ac Wave 1-compatible (most models)
- Multigigabit uplink (WAP581)
- Dual GE uplinks (WAP571/581)
- PoE/PoE+ input (all models)
- PoE output (WAP361)
- Built-in managed switch (WAP361)
- Integrated wireless spectrum analysis tool (WAP581)
- [Single Point Setup](#) for easy, cost-effective deployment of multiple access points (most models)
- Easy to set up and use with wizard-based configuration (all models)

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1.7 Gbps			 WAP581
1.3 Gbps		 WAP571  WAP571E  WAP371	
867 Mbps		 WAP125  WAP361  WAP150	
450 Mbps	 WAP561		
300 Mbps	 WAP121  WAP131		
	11n	11ac Wave 1	11ac Wave 2

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Cisco 100 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP121-x-K9-xx	-	●	-	-	●	-	-	16	-	1	-	-	●	●	External
WAP125-x-K9-xx	CON-SMBS-WAP12K9x	●	●	-	●	●	-	16	-	-	1	-	●	●	External
WAP131-x-K9-xx	CON-SMBS-WAP131AK	●	-	-	●	●	●	16	-	-	1	-	●	●	External
WAP150-x-K9-xx	CON-SMBS-WAP159xx	●	●	-	●	●	●	16	4	-	1	-	●	●	External

*1 Power Adapter (included) or Power Injector is required when not using PoE receiving.

Cisco 300 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP361-x-K9	CON-SMBS-WAP361xK	●	●	-	●	●	●	32	8	-	5 ^{*2}	-	● ^{*3}	●	External
WAP371-x-K9	CON-SMBS-WAP71xK9	●	●	-	●	●	●	32	8	-	1	-	● ^{*3}	●	External

*1 Power Adapter or Power Injector is required when not using PoE receiving.

*2 GE PoE (PSE) x 1 is included. *3 Some features are disabled when powered via 802.3af PoE.

Cisco 500 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP561-x-K9	-	●	●	-	●	●	-	64	16	-	1	-	●	●	-
WAP571-x-K9	CON-SMBS-WAP57xK9	●	●	-	●	●	●	64	16	-	2	-	● ^{*2}	●	-
WAP571E-x-K9	CON-SMBS-WAP571Ex	●	●	-	●	●	●	64	16	-	2	-	● ^{*2}	●	-
WAP581-x-K9	CON-SMBS-WAP581xK	●	●	●	●	●	●	64	16	-	1	1	● ^{*2}	●	-

*1 Power Adapter or Power Injector is required when not using PoE receiving.

*2 Some features are disabled when powered via 802.3af PoE.

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Industry-Leading Wireless Performance

Ideal for small and medium-sized networks, the [Cisco Aironet Access Points](#) deliver industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's new 802.11ac Wave 2 specification, and meet the growing requirements of wireless networks by delivering a better user experience. For organizations paving the way for the new 11ac Wave 2 standard, the Cisco Aironet Access Points are the perfect solution. The access points go beyond getting ready for the new standard, providing the ultimate in flexibility and versatility.

Highlights

- IEEE 802.11ac Wave 2-compatible (all models)
- Dual 5-GHz radios allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speeds ([Aironet 2800/3800](#))
- [Cisco High Density Experience \(HDX\)](#) including features such as custom hardware in 11ac Wave 2 radios, [Cisco CleanAir](#), [Cisco ClientLink 4.0](#), cross-access point noise reduction, and an optimized client roaming experience ([Aironet 2800/3800](#))
- Multigigabit uplink ([Aironet 3800](#))
- Dual GE uplinks ([Aironet 1850/2800/3800](#))
- PoE/PoE+ input (all models)
- PoE output ([Aironet 1815t/w](#))
- Built-in managed switch ([Aironet 1815t/w](#))
- [Cisco Mobility Express](#) for easy, cost-effective deployment of multiple access points (most models)



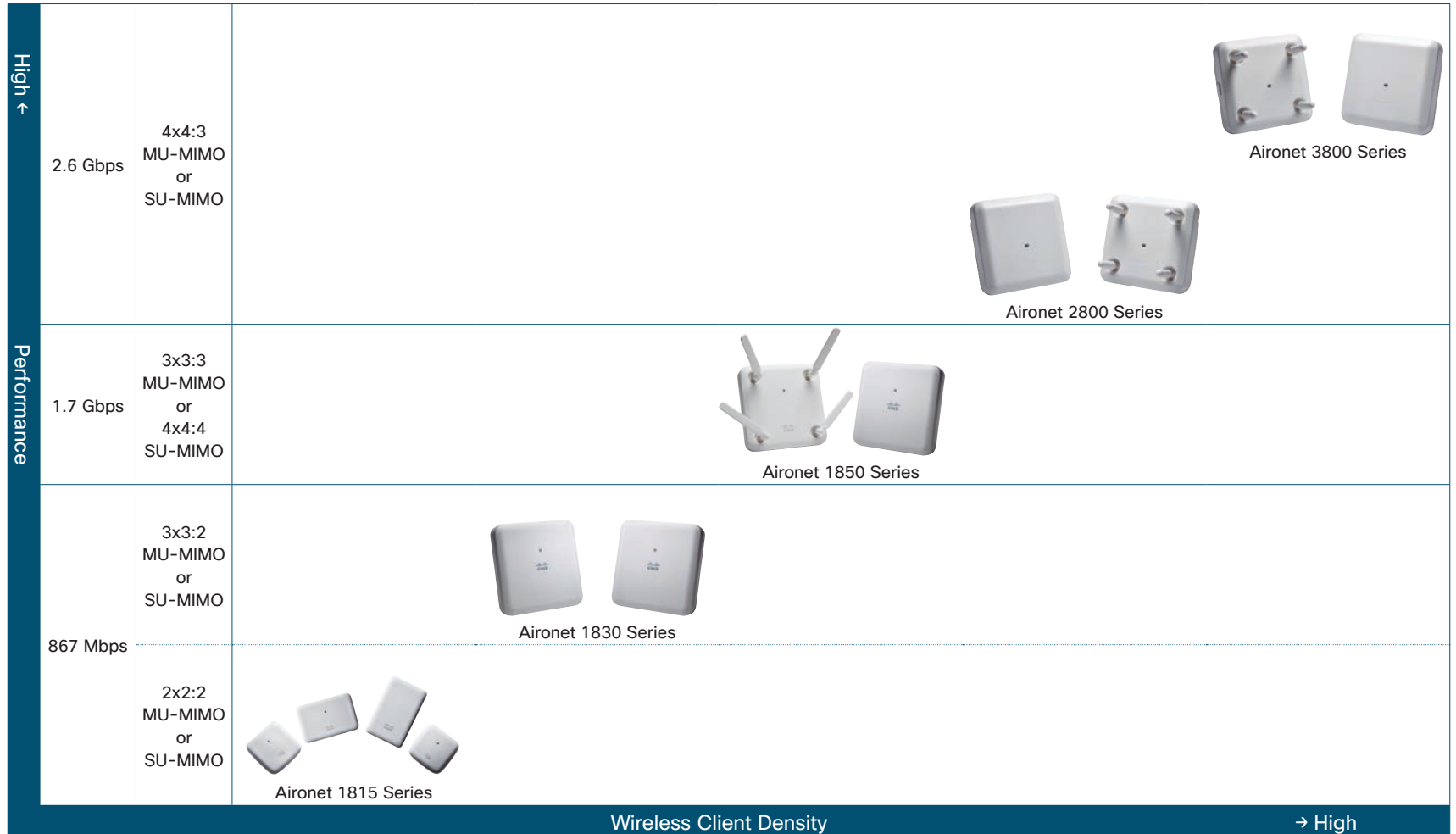


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Cisco Aironet 1815 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1815I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815M-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815M-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815T-x-K9	CON-SMBS-xxxx	-	● ^{*3}	●	●	●	-	400	-	4	-	-	-	Internal
AIR-AP1815W-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	4 ^{*4}	-	● ^{*5}	●	Internal
AIR-AP1815W-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	4 ^{*4}	-	● ^{*5}	●	Internal

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Mode migration is not supported. *4 Local GE x 2 and PoE power supplying local GE x 1 are included.

*5 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 1830 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1832I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	● ^{*3}	●	Internal
AIR-AP1832I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	● ^{*3}	●	Internal

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 1850 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1852I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	2	-	● ^{*3}	●	Internal
AIR-AP1852I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● ^{*3}	●	Internal
AIR-AP1852E-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	2	-	● ^{*3}	●	External
AIR-AP1852E-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

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Cisco Aironet 2800 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP2802I-x-K9C	-	●	-	●	●	●	●	400	256	2	-	● ^{*3}	●	Internal
AIR-AP2802I-x-K9	-	-	●	●	●	●	●	400	256	2	-	● ^{*3}	●	Internal
AIR-AP2802E-x-K9C	-	●	-	●	●	●	●	400	256	2	-	● ^{*3}	●	External
AIR-AP2802E-x-K9	-	-	●	●	●	●	●	400	256	2	-	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Injector is required when not using PoE receiving.
*3 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 3800 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP3802I-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	Internal
AIR-AP3802I-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	Internal
AIR-AP3802E-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802E-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802P-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802P-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Injector is required when not using PoE receiving.
*3 Some features are disabled when powered via 802.3af PoE.

What is Meant by a "x" Included in the SKU

Country ^{*1}	Australia	Brunei	China	Fiji	Hong Kong	India	Indonesia	Japan	Korea	Macau
x (Regulatory Domain)	Z	S	H	N	N, S	D, N	F	Q	K	C, S

Country ^{*1}	Malaysia	Mongolia	New Zealand	Pakistan	Philippines	Singapore	Sri Lanka	Taiwan	Thailand	Vietnam
x (Regulatory Domain)	C, K	E, H	Z	C, G	A	S	E	T	E, S	E, S

*1 Customers are responsible for verifying approval for use in their individual countries.

To verify approval that corresponds to a particular country, or the regulatory domain used in a specific country, see <http://www.cisco.com/go/aironet/compliance>.
Not all models available for all regulatory domains. Not all regulatory domains have been approved. As they are approved, the SKU will be available on the Global Price List.

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Cisco Aironet Power Injectors & Power Supplies

Product SKU	Description	Compatible Models												
		1815i	1815m	1815t	1815w	1830i	1850i	1850e	2800i	2800e	3800i	3800e	3800p	
AIR-PWRINJ5=	Power Injector (802.3af)	●	●	-	●	●*1	●*1	●*1	-	-	-	-	-	
AIR-PWRINJ6=	Power Injector (802.3at)	●	●	-	●	●	●	●	●	●	●	●	●	
AIR-PWR-C=	Power Supply (Black)	-	-	-	-	●	●	●	-	-	-	-	-	
AIR-PWR-D=	Power Supply (White)	-	-	●	-	●	●	●	-	-	-	-	-	
AIR-PWR-50=	Power Supply (White)	-	-	-	-	-	-	-	-	-	●	●	●	

*1 Some features are disabled.

Cisco Aironet Antennas

Product SKU	Description	Compatible Models												
		1815i	1815m	1815t	1815w	1830i	1850i	1850e	2800i	2800e	3800i	3800e	3800p	
AIR-ANT2524DB-R	Dual-Band Dipole Antenna (Black)	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2524DG-R	Dual-Band Dipole Antenna (Gray)	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2524DW-R	Dual-Band Dipole Antenna (White)	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2535SDW-R	Short Dual-Band Omni Antenna (White)	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2524V4C-R	Dual-Band Ceiling Mount Omnidirectional Antenna	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2544V4M-R	Dual-Band Wall-Mounted Omnidirectional Antenna	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2566P4W-R	Dual-Band Patch Antenna	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2566D4M-R	Dual-Band Polarization-Diverse Directional Array Antenna	-	-	-	-	-	-	●	-	●	-	●	●	
AIR-ANT2513P4M-N	Dual-Band Polarization-Diverse Array Antenna	-	-	-	-	-	-	-	-	-	-	-	●	

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Centralized Control, Management, and Troubleshooting for Small to Medium-Sized Wireless Networks

The **Cisco Wireless Controllers** provide centralized control, management, and troubleshooting for small to medium-sized enterprises and branch offices. They offer flexibility to support multiple deployment modes in the same controller—a centralized mode for campus environments, Cisco FlexConnect mode for lean branches managed over the WAN, and a mesh (bridge) mode for deployments in which full Ethernet cabling is unavailable.

Highlights

- Flexibility to configure wireless policy, management or security settings at any time
- Faster response to business needs by centrally managing wireless networks
- Standardized access point configuration for software versioning
- Networkwide quality of service (QoS) for voice and video across wired and wireless networks
- Networkwide centralized security policies across wired and wireless networks

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Appliance	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>3504 Wireless Controller</p> </div> <div style="text-align: center;">  <p>5520 Wireless Controller</p> </div> <div style="text-align: center;">  <p>8540 Wireless Controller</p> </div> </div>		
Virtual Machine	 <p style="text-align: center;">Virtual Wireless Controller</p>		
Switch	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   <p>Catalyst 3650 Series</p> </div> <div style="text-align: center;">   <p>Catalyst 3850 Series</p> </div> </div>		
Access Point (Mobility Express)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   <p>Aironet 1815/1830/1850 Series</p> </div> <div style="text-align: center;">   <p>Aironet 2800/3800 Series</p> </div> </div> <p style="text-align: center; margin-top: 10px;">Maximum Access Points</p>		

[→ More](#)



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Cisco Aironet 1815/1830/1850/2800/3800 Series Access Points

Series Name	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports ^{*1}		Rack Mount
	Central	Flex Connect	Mesh	Flex Connect + Mesh	Office Extend	Mobility Express	Default	Maximum				GE	mGig	
Aironet 1815/1830/1850	-	-	-	-	-	●	50	50	1,000	-	1 Gbps	-	-	-
Aironet 2800/3800	-	-	-	-	-	●	100	100	2,000	-	1 Gbps	-	-	-

*1 Depends on models.

Cisco Catalyst 3650/3850 Series Switches

Series Name	Models	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports ^{*1}		Rack Mount
		Central	Flex Connect	Mesh	Flex Connect + Mesh	Office Extend	Mobility Express	Default	Maximum				GE	mGig	
Catalyst 3650	24-Port Copper	●	-	-	-	-	-	0	50	1,000	1,000	20 Gbps	-	-	1 RU
	48-Port Copper	●	-	-	-	-	-	0	50	1,000	1,000	40 Gbps	-	-	1 RU
Catalyst 3850	24-Port Copper 1 GE Fiber	●	-	-	-	-	-	0	100	2,000	1,000	20 Gbps	-	-	1 RU
	48-Port Copper 10 GE Fiber	●	-	-	-	-	-	0	100	2,000	1,000	40 Gbps	-	-	1 RU

*1 Depends on models.

Cisco 3504 Wireless Controller NEW

Product SKU	Service (CSE) SKU	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports		Rack ^{*1} Mount
		Central	Flex Connect	Mesh	Flex Connect + Mesh	Office Extend	Mobility Express	Default	Maximum				GE	mGig	
AIR-CT3504-K9	-	●	●	●	●	●	-	0	150	3,000	1,500	4 Gbps	4	1	1 RU

*1 Rack Mount Bracket (AIR-3504-RMNT=) is required.

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Cisco Catalyst 3650/3850 Series Switches License*1

Product SKU	Description
L-LIC-CTIOS-1A	1 Access Point Adder License

*1 L-LIC-CT3650-UPG is required for Catalyst 3650.
L-LIC-CT3850-UPG is required for Catalyst 3850.

Cisco 3504 Wireless Controller License*1

Product SKU	Description
LIC-CT3504-1A	1 Access Point Adder License

*1 LIC-CT3504-UPG is required.

Cisco 3504 Wireless Controller Rack Mount Bracket

Product SKU	Description
AIR-3504-RMNT=	Rack Mount Bracket



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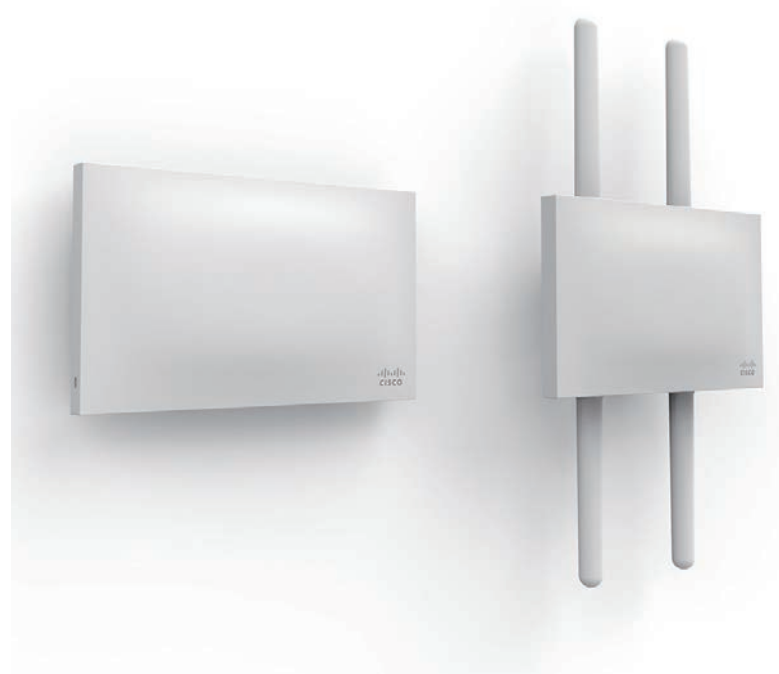
100 % Cloud Managed for Faster Deployment, Simplified Administration, and Richer Visibility

The **Cisco Meraki MR Cloud Managed Access Points** are built from the highest grade components and carefully optimized for a seamless user experience. The outcome: faster connections, greater user capacity, more coverage, and fewer support calls.

The Cisco Meraki wireless solution includes a complete, robust feature set right out of the box. No additional purchase required.

Highlights

- **Centralized Management:** Seamlessly manage campus-wide Wi-Fi deployments and distributed multi-site networks from a single pane-of-glass.
- **Multigigabit Ethernet:** Pass 2.5Gbps of traffic over a single cable in order to take full advantage of high speed 802.11ac Wave 2 wireless.
- **Location Analytics:** Reveal powerful metrics such as visitor capture rate, user visit time, and repeat visits by listening for wireless devices.
- **Application Visibility & Control:** Identify which applications are being used, and then prioritize critical apps while limiting recreational apps.
- **High Capacity 802.11ac:** RF optimization with real-time spectrum analysis enables high performance wireless in dense, demanding environments.
- **Automatic RF Optimization:** Automatically optimize Wi-Fi by measuring channel utilization, signal strength, throughput, and interference.
- **Dedicated Security Radio:** Instantly detects interference, vulnerabilities, and attacks on all channels.
- **Identity-Based Firewall:** Automatically assigns firewall and traffic shaping rules, VLAN tags, and bandwidth limits to enforce the right policies for each class of users.



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High ←	1,733 Mbps (5 GHz) + 800 Mbps (2.4 GHz)	4x4:4 MU-MIMO or SU-MIMO	 <p>MR53 MR53E <small>NEW</small></p>  <p>MR52</p>	
	Performance	1,300 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	3x3:3 MU-MIMO or SU-MIMO	 <p>MR42 MR42E <small>NEW</small></p>
		866 Mbps (5 GHz) + 400 Mbps (2.4 GHz)	2x2:2 MU-MIMO or SU-MIMO	 <p>MR30H</p> <p>MR33</p> <p>MR20 <small>NEW</small></p>
			Wireless Client Density → High	

Cisco Meraki MR Cloud Managed Access Points



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Product SKU	Cloud Management	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	WIDS/WIPS	Bluetooth Low Energy	Ports		PoE (PD) ^{*1}		Antenna
		11n	11ac Wave 1	11ac Wave 2						GE	mGig	802.3af	802.3at	
MR20-HW <small>NEW</small>	●	●	●	●	●	●	●	-	-	1	-	●	●	Internal
MR30H-HW	●	●	●	●	●	●	●	●	-	5 ^{*1}	-	● ^{*2}	●	Internal
MR33-HW	●	●	●	●	●	●	●	●	●	1	-	●	●	Internal
MR42-HW	●	●	●	●	●	●	●	●	●	1	-	● ^{*2}	●	Internal
MR42E-HW <small>NEW</small>	●	●	●	●	●	●	●	●	●	1	-	● ^{*2}	●	External

*1 Local GE x 3 and PoE power supplying local GE x 1 are included.

*2 Some features are disabled when powered via 802.3af PoE.

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Cisco Meraki MR Cloud Managed Access Points Enterprise Licenses

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
LIC-ENT-1YR	License and Support, 1-Year	●	●	●	●	●
LIC-ENT-3YR	License and Support, 3-Years	●	●	●	●	●
LIC-ENT-5YR	License and Support, 5-Years	●	●	●	●	●
LIC-ENT-7YR	License and Support, 7-Years	●	●	●	●	●
LIC-ENT-10YR	License and Support, 10-Years	●	●	●	●	●

Cisco Meraki MR Cloud Managed Access Points Injectors & Power Supplies

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
MA-INJ-4-xx	PoE Injector (802.3at)	●	●	●	●	-
MA-INJ-5-xx	Multigigabit PoE Injector (802.3at)	-	-	-	-	●
MA-PWR-30W-xx	Power Supply	●	-	●	●	●

Cisco Meraki MR Cloud Managed Access Points Antennas

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
MA-ANT-3-A5	Dipole Antenna	-	-	-	-	●
MA-ANT-3-B5	Dipole Antenna (Bendable)	-	-	-	-	●
MA-ANT-3-C5	Panel Omni Antenna	-	-	-	-	●
MA-ANT-3-D5	Downtilt Panel Omni Antenna	-	-	-	-	●
MA-ANT-3-E5	Wide Patch Antenna	-	-	-	-	●
MA-ANT-3-F5	Narrow Patch Antenna	-	-	-	-	●

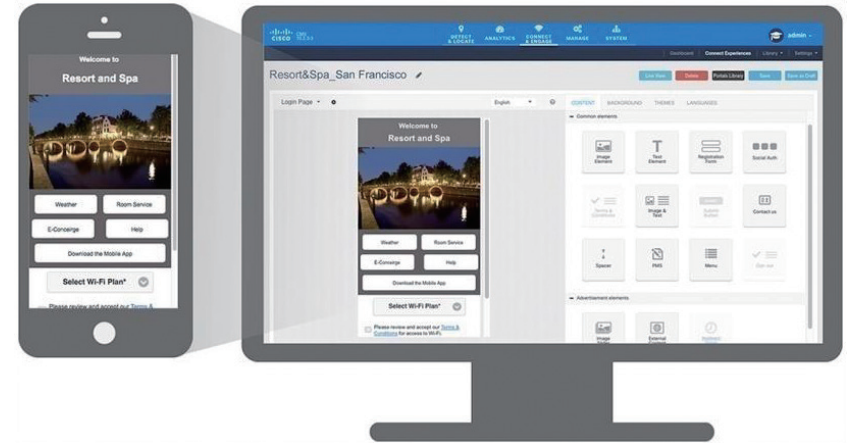
Overview

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Cloud-Delivered Wi-Fi Guest Access Solution that Engages Visitors and Enables Analytics and Insights

The **Cisco Connected Mobile Experiences (CMX) Cloud** is a cloud-delivered version of the on-premises CMX 10 software. The CMX Cloud revolutionizes the delivery of wireless services, integrating seamlessly with the Cisco wireless infrastructure and creating out-of-the-box capabilities that are intuitive as well as quick and easy to deploy and use. The affordable subscription billing model helps reduce up-front investments in equipment (CapEx) and IT resources. Ultimately, CMX Cloud accelerates how wireless infrastructure can deliver business outcomes by:

- Detecting all Wi-Fi devices that are in the proximity of access points in the venue and providing analytics on their presence, including dwell times, new vs. repeat visitors, peak times, etc.
- Providing a simplified guest access solution to onboard visitors through a custom drag-and-drop portal using various authentication methods (social, self-registration, SMS, guest vouchers, sponsor email approval, etc.).
- Enabling you to engage visitors directly on the guest portal page with external content based on location. Clickable menu items in the captive portal editor create interactive experiences. Alternatively, CMX APIs can be used to engage users via a mobile app.
- Providing the ability to create profile rules to define criteria for in-location personas, for a better understanding of and insights into customers visiting physical locations, enabling the delivery of more personalized engagements and content.
- Turning insights into action by delivering personalized engagements to consumers' mobile devices using the best available channel based on location, user preferences, and type of engagement. Multichannel engagement capabilities include SMS, email, app push notification, and API trigger.



CMX Connect: Guest Portal



CMX Presence Analytics

Cisco Connected Mobile Experiences (CMX) Cloud Licenses

The **Cisco Connected Mobile Experiences (CMX) Cloud** is an simple and scalable offering which enables delivery of wireless guest access and in-venue analytics, integrating seamlessly with Cisco wireless infrastructure. This cloud-delivered Software-as-a-Service (SaaS) offering is quick to deploy and intuitive to use. It is based on CMX 10.x code and is compatible with **Cisco Wireless Controller Software 7.6 or higher**, and **Cisco Mobility Express Release 8.3 or higher**.

It offers the following services:

- **Connect** (for Guest Access): Providing an easy-to-use guest-access solution for visitors through a custom portal using various authentication methods including social, self-registration, and Short Message Service (SMS).
- **Presence Analytics**: Detecting all Wi-Fi devices (the “devices”) in the venue and providing analytics on their presence, including dwell times, new vs. repeat visitors, and peak time.

Product SKU*1	Description
AIR-CMX-SVC-CX	CMX Cloud Connect License, per Access Point/Month with a 1-, 3-, or 5-Year Initial Term and Annual Renewals
AIR-CMX-SVC-CPAX	CMX Cloud Connect with Presence Analytics License, per Access Point/Month with a 1-, 3-, or 5-Year Initial Term and Annual Renewals

*1 AIR-CMX-CLOUD is required.required.



Featured Products

Portfolio

 Cisco ISR 1100 Series



 C1111-8PLTELAWx

IOS XE IP Base	Multicore CPU	Dual GE-WAN	250 Mbps Max Crypto Throughput	LTE Advanced
8-port GE Managed Switch	Optional PoE/PoE+	11ac Wave 2 AP	Mobility Express	

 C1111-4P

IOS XE IP Base	Multicore CPU	Dual GE-WAN	125 Mbps Max Crypto Throughput
4-port GE Managed Switch	Optional PoE/PoE+		

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Portfolio

High →

Performance, Function, Flexibility, Scalability



RV Series



ISR 800 Series



ISR 1000 Series



ISR 4000 Series



ASR 1000 Series

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Modular Platforms

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Secure, Flexible Connectivity for Small Business

The **Cisco RV Series** are affordable, highly secure network access devices, designed and built for small businesses. Cisco offers a broad range of small business routers to meet any requirement from basic Internet connectivity to high-capacity, business-critical networking.

Highlights

- Dual Gigabit Ethernet WAN ports for load balancing and/or business continuity (select models)
- Dual USB ports for storage and 3G/4G modem failover (select models)
- Site-to-site and remote access VPN enable highly secure connectivity, making Cisco RV Series perfect for multiple offices and remote employees.
- Strong security by proven stateful packet inspection (SPI) firewall
- Built-in managed switch (all models)
- Built-in IEEE 802.11n/ac-compatible wireless access point (wireless models)
- Easy to set up and use with wizard-based configuration



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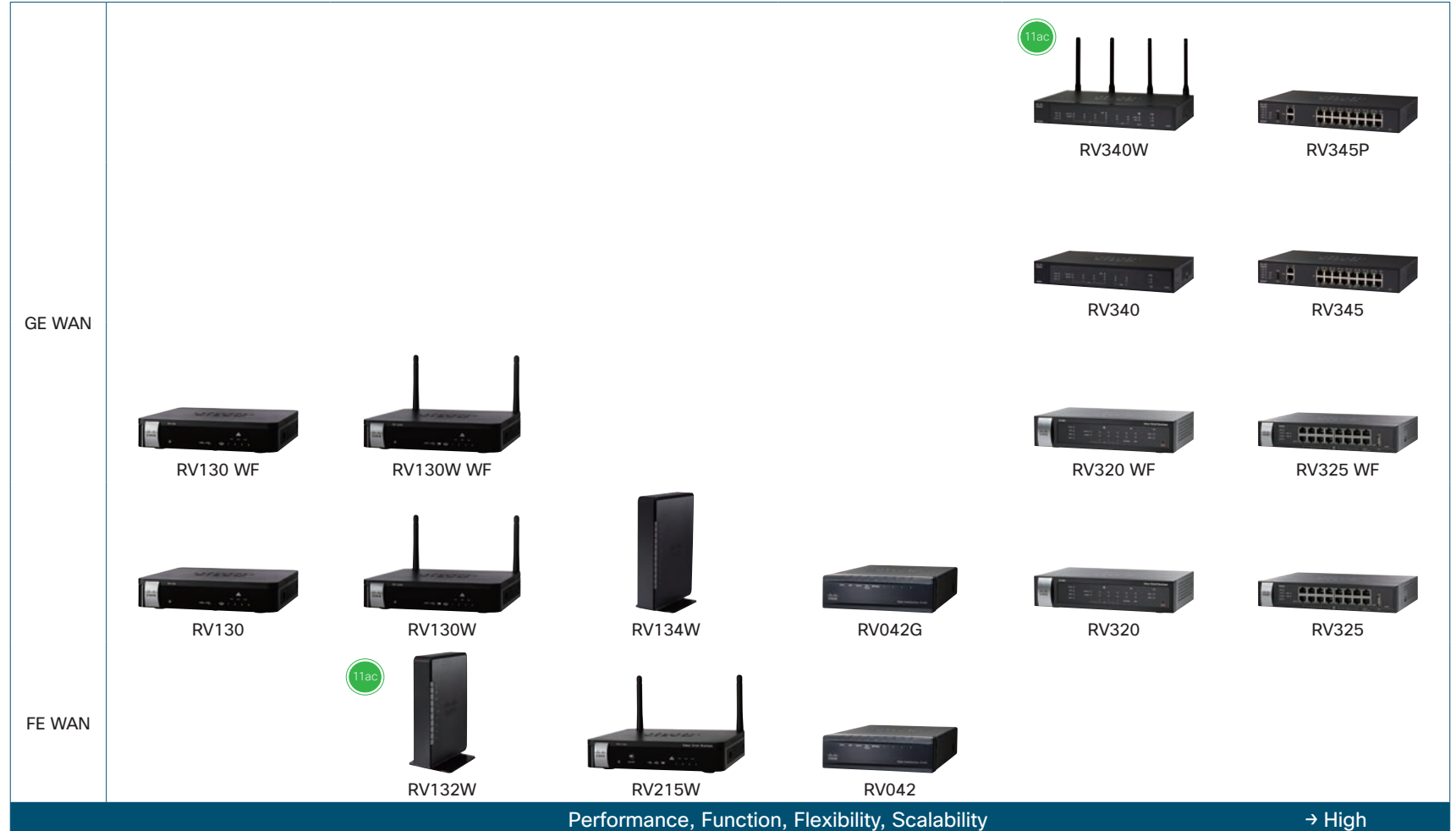
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Product SKU	Service (CSE) SKU	WAN Ports				LAN Ports		PoE			IPsec Through-put	IPsec VPN Tunnels		Web Filtering	Wireless				AC Power
		FE	GE	xDSL	3G/4G	FE	GE	Ports	Power Budget	IEEE 802.3		Site-to-Site	Remote Access		11n	11ac	2.4 GHz	5 GHz	
RV042-xx	CON-SMBS-V02xxxxx	2	-	-	-	4	-	-	-	-	59 Mbps	50	50	-	-	-	-	-	External
RV042G-K9-xx	CON-SMBS-RV02G9xx	-	2	-	-	-	4	-	-	-	75 Mbps	50	50	-	-	-	-	-	External
RV130-K9-xx	CON-SMBS-V10K9xxx CON-SMBS-RV1N10K9	-	1	-	1**	-	4	-	-	-	50 Mbps	10	10	-	-	-	-	-	External
RV130-WB-K9-xx	CON-SMBS-V10K9xxx CON-SMBS-RV1N10K9	-	1	-	1**	-	4	-	-	-	50 Mbps	10	10	●	-	-	-	-	External
RV130W-x-K9-xx	CON-SMBS-V10W9xxx	-	1	-	1**	-	4	-	-	-	50 Mbps	10	10	-	●	-	●	-	External
RV130W-x-WB-K9-xx	-	-	1	-	1**	-	4	-	-	-	50 Mbps	10	10	●	●	-	●	-	External
RV132W-x-K9-xx	CON-SMBS-RV13K9xx	1	-	1	1**	3	-	-	-	-	3 Mbps	5	5	-	●	-	●	-	External
RV134W-x-K9-xx	CON-SMBS-RV134Wxx	-	1	1	1**	-	4	-	-	-	20 Mbps	5	5	-	●	●	●	●	External
RV215W-x-K9-xx	CON-SMBS-RV25W9xx	1	-	-	1**	4	-	-	-	-	5 Mbps	1	5	-	●	-	●	-	External
RV320-K9-xx	CON-SMBS-RV30K9xx CON-SMBS-RV320K9x	-	2	-	1**	-	4	-	-	-	100 Mbps	25	25	●	-	-	-	-	External
RV320-WB-K9-xx	CON-SMBS-RV20BKxx	-	2	-	1**	-	4	-	-	-	100 Mbps	25	25	-	-	-	-	-	External
RV325-K9-xx	CON-SMBS-RV35K9xx	-	2	-	1**	-	14	-	-	-	100 Mbps	25	25	-	-	-	-	-	External
RV325-WB-K9-xx	CON-SMBS-RV32WBxx	-	2	-	1**	-	14	-	-	-	100 Mbps	25	25	●	-	-	-	-	External
RV340-K9-xx	CON-SMBS-RV340Kxx	-	2	-	1**	-	4	-	-	-	650 Mbps	50	50	●*2	-	-	-	-	External
RV340W-K9-xx	-	-	2	-	1**	-	4	-	-	-	650 Mbps	50	50	●*2	●	●	●	●	External
RV345-K9-xx	CON-SMBS-V345K9xx	-	2	-	1**	-	16	-	-	-	650 Mbps	50	50	●*2	-	-	-	-	External
RV345P-K9-xx	CON-SMBS-RV345Pxx	-	2	-	1**	-	16	8	120 W	af/at	650 Mbps	50	50	●*2	-	-	-	-	External

*1 3G/4G modem is required. *2 Security License is required.

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Small but Mighty Business-class Routers

Do you have limited space, but need best-in-class routing, voice and video, security, application performance, cloud connection, and wireless capabilities? The **Cisco ISR 800 Series** routers offer all that in a single device. They are well suited for customer premises and priced for small and midsize businesses.

Highlights

- Cisco IOS Universal Image (IP Base/Advanced Security/Advanced IP Services)
- Dual WAN ports for load balancing and/or business continuity (select models)
- 4G LTE wireless WAN (select models)
- Built-in managed switch (all models)
- Built-in IEEE 802.11n-compatible wireless access point (wireless models)
- Easy to set up and use with wizard-based configuration (Cisco Configuration Professional Express)



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Product SKU	Service (CSE) SKU	Cisco IOS	WAN Ports						LAN Ports		Wireless		AppX	Security		Voice	Rack mount	
			FE	GE	GE/SFP	ISDN	xDSL	Voice	FE	GE	AP	4G LTE		FW	VPN			
C819H-K9	CON-SMBS-C819HK9	Advanced IP Services	-	1	-	-	-	-	-	4	-	-	-	●	●	●	-	_*5
C819G-LTE-LA-K9	CON-SMBS-C819TEK9	Advanced IP Services	-	1	-	-	-	-	-	4	-	-	●	●	●	●	-	_*5
C819GW-LTE-LA-xK9*1	CON-SMBS-C8QT9GWL	Advanced IP Services	-	1	-	-	-	-	-	4	-	●	●	●	●	●	-	_*5
C867VAE	CON-SMBS-C867VAE	IP Base	-	1	-	-	1	-	-	3	2	-	-	-	-	-	-	-
C867VAE-K9	CON-SMBS-C867VAK9	Advanced Security	-	1	-	-	1	-	-	3	2	-	-	-	●	●	-	-
C881W-x-K9	CON-SMBS-C881WxK9	Advanced Security	1	-	-	-	-	-	-	4	-	●	-	-	●	●	-	-
C881-V-K9	CON-SMBS-C881VK8	Advanced IP Services	1	-	-	-	-	-	7*2	4	-	-	-	-	●	●	●*4	-
C891F-K9	CON-SMBS-C891F8BB	Advanced IP Services	1	-	1	1	-	-	-	-	8	-	-	●*3	●	●	-	_*6
C891-24X/K9	CON-SMBS-C89124K9	Advanced IP Services	-	-	2	-	-	-	-	-	24	-	-	-	●	●	-	_*7
C892FSP-K9	CON-SMBS-C892FSPK	Advanced IP Services	-	1	1	-	-	-	-	-	8	-	-	●*3	●	●	-	_*6
C897VA-K9	CON-SMBS-C897VAK9	Advanced IP Services	-	-	1	1	1	-	-	-	8	-	-	●*3	●	●	-	_*6
C897VAG-LTE-LA-K9	CON-SMBS-CLTEAGK9	Advanced IP Services	-	-	1	-	1	-	-	-	8	-	●	●*3	●	●	-	_*6
C898EAG-LTE-LA-K9	CON-SMBS-C898EAGA	Advanced IP Services	-	-	1	-	1	-	-	-	8	-	●	●*3	●	●	-	_*6
C899G-LTE-LA-K9	CON-SMBS-C89LKEGL	Advanced IP Services	-	1	1	-	-	-	-	-	8	-	●	●*3	●	●	-	_*6

*1 The "x" corresponds to the supported domain. *2 BRI x 2, FXS x 4, FXO x 1. *3 Feature License is required. *4 Call control and messaging are not supported. *5 DIN Rail Mount and Floor/Wall Mount are supported (Optional). *6 ACS-890-RM-19 is required. *7 ACS-2901-RM-19 is required.

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Cisco IOS Feature Licenses

Product SKU	Description
L-FL-C800-APP=	Cisco IOS APP License for Cisco ISR 891F/892FSP/897VA/899G
L-FL-CME-SRST-5=	Cisco Unified CME or SRST 5 License for Cisco ISR 881-V

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Fixed, High-Performance Routers

The **Cisco ISR 1000 Series** routers are best suited for small and midsize businesses, enterprise branches, and as customer premises equipment in managed services environments. The routers come in two models: an 8-LAN-port option and a 4-LAN-port option. There are multiple LAN, WLAN, WAN, and LTE combinations to choose from, depending on your branch needs. The 1000 Series can be used in ATMs, retail stores, and kiosks, as well as for various other purposes.

Highlights

- Cisco IOS XE Universal Image (**IP Base/SEC/AX**)
- High-performance multicore processors for high-speed WAN connections and multiple services
- Dual WAN ports for load balancing and/or business continuity
- 4G LTE wireless WAN (select models)
- Built-in managed switch (all models)
- Optional integrated power supply for distribution of PoE/PoE+
- Built-in IEEE 802.11ac Wave 2-compatible wireless access point (wireless models)
- **Cisco Mobility Express** for flexible deployment



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Product SKU	Service (CSE) SKU	Cisco IOS	Crypto Throughput		WAN Ports			LAN Ports	Wireless		AppX	Security		Voice	Rack Mount
			Default	Upgradable ^{*1}	GE	GE/SFP	xDSL	GE	AP	4G LTE		FW	VPN		
C1111-4P	CON-SMBS-C11114P	IP Base ^{*3}	50 Mbps	150 Mbps	1	1	-	4	-	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-8P	CON-SMBS-C11118P	IP Base ^{*3}	50 Mbps	250 Mbps	1	1	-	8	-	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-4PWx ^{*2}	CON-SMBS-C111xW4P ^{*2}	IP Base ^{*3}	50 Mbps	150 Mbps	1	1	-	4	●	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-8PWx ^{*2}	CON-SMBS-C111xW8P ^{*2}	IP Base ^{*3}	50 Mbps	250 Mbps	1	1	-	8	●	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-4PLTELA	CON-SMBS-C1114PAL	IP Base ^{*3}	50 Mbps	150 Mbps	1	1	-	4	-	●	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-8PLTELA	CON-SMBS-C1118PAL	IP Base ^{*3}	50 Mbps	250 Mbps	1	1	-	8	-	●	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1111-8PLTELAWx ^{*2}	CON-SMBS-C11118PW	IP Base ^{*3}	50 Mbps	250 Mbps	1	1	-	8	●	●	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1116-4P	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	-	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4P	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	-	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4PM	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	-	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4PWx ^{*2}	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	●	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4PMWx ^{*2}	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	●	-	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4PLTELA	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	-	●	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}
C1117-4PLTELAWx ^{*2}	TBD	IP Base ^{*3}	50 Mbps	150 Mbps	-	1	1	4	●	●	- ^{*4}	- ^{*5}	- ^{*5}	-	- ^{*6}

*1 Cisco IOS IPsec Performance License and Cisco IOS HSEC License are required. *2 The "x" corresponds to the supported domain.

*3 Cisco IOS SEC License, Cisco IOS APP License, Cisco IOS IPsec Performance License, and Cisco IOS HSEC License can be added. *4 Cisco IOS APP License is required.

*5 Cisco IOS SEC License is required. *6 ACS-1100-RM-19 is required.

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Cisco IOS Technology Package Licenses

Product SKU	Description
SL-1100-4P-SEC	Cisco IOS SEC License for Cisco ISR 1111 (4-port Model)
SL-1100-8P-SEC	Cisco IOS SEC License for Cisco ISR 1111 (8-port Model)
SL-1100-4P-APP	Cisco IOS APP License for Cisco ISR 1111 (4-port Model)
SL-1100-8P-APP	Cisco IOS APP License for Cisco ISR 1111 (8-port Model)

Cisco IOS Feature Licenses

Product SKU	Description
FL-VPERF-4P-100	Cisco IOS VPER License for Cisco ISR 1111 (4-port Model)
FL-VPERF-8P-200	Cisco IOS VPER License for Cisco ISR 1111 (8-port Model)
FL-1100-4P-HSEC	Cisco IOS HSEC License for Cisco ISR 1111 (4-port Model)
FL-1100-8P-HSEC	Cisco IOS HSEC License for Cisco ISR 1111 (8-port Model)

 Cisco IOS Software Licensing and Packaging

A single Cisco IOS XE universal image encompassing all functions is delivered with the platform. Advanced features can be enabled simply by activating a software license on the Universal image. The following licenses are available:

- **IP Base:** Available as the default.
- **Security (SEC):** Includes features for securing network infrastructure.
- **Application Experience (APP):** Includes data and application performance features.
- **Performance (VPER):** Provides additional IPsec performance 100 Mbps for ISR 1100-4P and 200 Mbps for ISR 1100-8P.
- **High Performance Security (HSEC):** Provides High IPsec maximum performance security.

VPER

HSEC

APP

SEC

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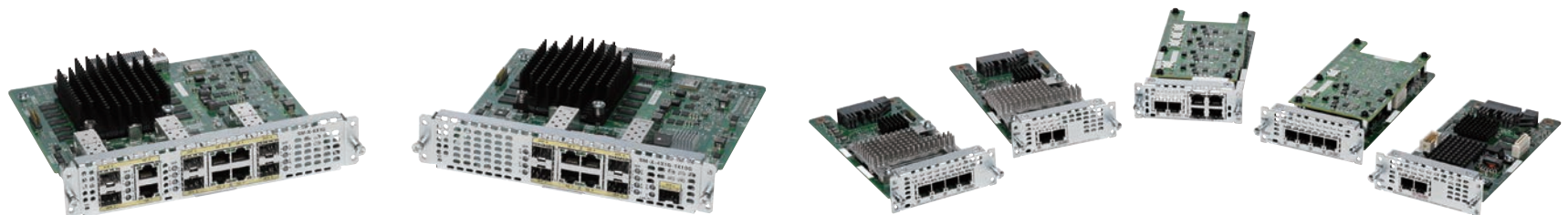
Meet All Your Needs with One Device

The **Cisco ISR 4000 Series** routers consolidate many must-have IT functions, including network, security, compute, storage, and unified communications. So you get everything you need in a single platform.

The platform is modular and upgradable, so you can add new services without changing equipment. It supports multiple application-aware services concurrently while maintaining WAN performance of up to 4 Gbps, even during heavy traffic loads. The backplane architecture supports high-bandwidth, module-to-module communication at speeds up to 10 Gbps.

Highlights

- Cisco IOS Universal Image (**IP Base/SEC/UC/AX**)
- High-performance multicore processors for high-speed WAN connections and multiple services
- Separates control- and data-plane operations (Cisco 4431/4451: the default control-plane memory is 4 GB, upgradable to 16 GB, and the default data-plane memory is 2 GB)
- **Cisco Enhanced Services Module (SM-X)** and **Cisco Network Interface Module (NIM)** integrate networking, services, computing, and storage into a single form factor



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Product SKU	Service (CSE) SKU	Cisco IOS	Throughput		Ports			Expansion Slots			Default Power Supply	Power Redundancy	Rack Mount
			Default	Upgradable	GE	SFP	GE/SFP	NIM	SM-X	PVDM			
ISR4221/K9	CON-SMBS-ISR4221K	IP Base*1	35 Mbps	75 Mbps	1	-	1	2	-	-	External AC	-	1 RU
ISR4321/K9	CON-SMBS-ISR4321K	IP Base*1	50 Mbps	100 Mbps	1	-	1	2	-	1	External AC	-	1 RU
ISR4331/K9	-	IP Base*1	100 Mbps	300 Mbps	1	1	1	2	1	1	Internal AC	-	1 RU
ISR4351/K9	-	IP Base*1	200 Mbps	400 Mbps	-	-	3	3	2	1	Internal AC	-	2 RU
ISR4431/K9	-	IP Base*1	500 Mbps	1 Gbps	-	-	4	3	-	1	Internal AC	●	1 RU
ISR4451-X/K9	-	IP Base*1	1 Gbps	2 Gbps	-	-	4	3	2	1	Internal AC	●	2 RU

*1 Cisco IOS SEC License, Cisco IOS UC License, and Cisco IOS APP License can be added.



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Product SKU	Description	Compatible Models					
		4221	4321	4331	4351	4431	4451
SL-4220-SEC-K9	Cisco IOS SEC License for Cisco ISR 4221	●	-	-	-	-	-
SL-4320-SEC-K9	Cisco IOS SEC License for Cisco ISR 4321	-	●	-	-	-	-
SL-4330-SEC-K9	Cisco IOS SEC License for Cisco ISR 4331	-	-	●	-	-	-
SL-4350-SEC-K9	Cisco IOS SEC License for Cisco ISR 4351	-	-	-	●	-	-
SL-44-SEC-K9	Cisco IOS SEC License for Cisco ISR 4400 Series	-	-	-	-	●	●
SL-4320-UC-K9	Cisco IOS UC License for Cisco ISR 4321	-	●	-	-	-	-
SL-4330-UC-K9	Cisco IOS UC License for Cisco ISR 4331	-	-	●	-	-	-
SL-4350-UC-K9	Cisco IOS UC License for Cisco ISR 4351	-	-	-	●	-	-
SL-44-UC-K9	Cisco IOS UC License for Cisco ISR 4400 Series	-	-	-	-	●	●
SL-4220-APP-K9	Cisco IOS APP License for Cisco ISR 4221	●	●	-	-	-	-
L-SL-4320-APP-K9	Cisco IOS APP License for Cisco ISR 4321	-	●	-	-	-	-
L-SL-4330-APP-K9	Cisco IOS APP License for Cisco ISR 4331	-	-	●	-	-	-
L-SL-4350-APP-K9	Cisco IOS APP License for Cisco ISR 4351	-	-	-	●	-	-
L-SL-44-APP-K9	Cisco IOS APP License for Cisco ISR 4400 Series	-	-	-	-	●	●

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Cisco IOS Feature Licenses

Product SKU	Description	Compatible Models					
		4221	4321	4331	4351	4431	4451
FL-4320-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4321 ^{*1}	-	●	-	-	-	-
FL-4330-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4331 ^{*1}	-	-	●	-	-	-
FL-4350-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4351 ^{*1}	-	-	-	●	-	-
FL-44-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4400 Series ^{*1}	-	-	-	-	●	●
SW-CCME-UL-ESS	Cisco Unified CME Phone License - Essential	-	●	●	●	●	●
SW-CCME-UL-BASIC	Cisco Unified CME Phone License - Basic	-	●	●	●	●	●
SW-CCME-UL-ENH	Cisco Unified CME Phone License - Enhanced	-	●	●	●	●	●
L-FL-CME-SRST-5	Cisco Unified CME or SRST 5 License ^{*2}	-	●	●	●	●	●
L-FL-CME-SRST-25	Cisco Unified CME or SRST 25 License ^{*2}	-	●	●	●	●	●
L-FL-CME-SRST-100	Cisco Unified CME or SRST 100 License ^{*2}	-	-	●	●	●	●
FL-CUBEE-5-RED	Cisco Unified BEe 5 Redundant Configuration License ^{*2}	-	●	●	●	●	●
FL-CUBEE-25-RED	Cisco Unified BEe 25 Redundant Configuration License ^{*2}	-	●	●	●	●	●
FL-CUBEE-100-RED	Cisco Unified BEe 100 Redundant Configuration License ^{*2}	-	●	●	●	●	●
SL-200-AKC	Cisco IWAN with Akamai Connect 200 Connections License ^{*3}	●	●	●	-	-	-
SL-750-AKC	Cisco IWAN with Akamai Connect 200 Connections License ^{*3}	-	-	●	●	●	-
SL-1300-AKC	Cisco IWAN with Akamai Connect 1,300 Connections License ^{*3}	-	-	●	●	●	●
SL-2500-AKC	Cisco IWAN with Akamai Connect 2,500 Connections License ^{*3}	-	-	●	●	-	●
SL-6K-AKC	Cisco IWAN with Akamai Connect 6,000 Connections License ^{*3}	-	-	●	●	-	●
FL-4220-PERF-K9	Cisco IOS Performance-on-Demand License for Cisco ISR 4221	●	-	-	-	-	-
FL-4320-PERF-K9	Cisco IOS Performance-on-Demand License for Cisco ISR 4321	-	●	-	-	-	-
FL-4330-PERF-K9	Cisco IOS Performance-on-Demand License for Cisco ISR 4331	-	-	●	-	-	-
FL-4350-PERF-K9	Cisco IOS Performance-on-Demand License for Cisco ISR 4351	-	-	-	●	-	-
FL-44-PERF-K9	Cisco IOS Performance-on-Demand License for Cisco ISR 4400 Series	-	-	-	-	●	●
FL-4220-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4221	●	-	-	-	-	-
FL-4320-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4321	-	●	-	-	-	-
FL-4330-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4331	-	-	●	-	-	-
FL-4350-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4351	-	-	-	●	-	-
FL-4430-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4431	-	-	-	-	●	-
FL-44-BOOST-K9	Cisco IOS Booster Performance License for Cisco ISR 4451	-	-	-	-	-	●

*1 Cisco IOS SEC License is required. *2 Cisco IOS UC License is required. *3 Cisco IOS APP License is required.

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Cisco Layer 2/3 EtherSwitch Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-ES2-4	EtherSwitch Module (L2, 4-port GE)	NIM	●	●	●	●	●	●
NIM-ES2-8	EtherSwitch Module (L2, 8-port GE)	NIM	●	●	●	●	●	●
NIM-ES2-8-P	EtherSwitch Module (L2, 8-port GE/PoE+)	NIM	-	●	●	●	●	●
SM-X-ES3-16-P	EtherSwitch Service Module (L2/L3, 16-port GE/PoE+)	SM-X	-	-	●	●	-	●
SM-X-ES3-24-P	EtherSwitch Service Module (L2/L3, 24-port GE/PoE+)	SM-X	-	-	●	●	-	●
SM-X-ES3D-48-P	EtherSwitch Service Module (L2/L3, 48-port GE/PoE+)	SM-X	-	-	-	●	-	●

Cisco Gigabit Ethernet WAN Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-1GE-CU-SFP	GE/SFP Module (1-port)	NIM	●	●	●	●	●	●
NIM-2GE-CU-SFP	GE/SFP Module (2-port)	NIM	-	●	●	●	●	●
SM-X-6X1G	GE/SFP Service Module (6-port)	SM-X	-	-	●	●	-	●
SM-X-4X1G-1X10G	GE/SFP (4-port) or SFP+ (1-port) Service Module	SM-X	-	-	●	●	-	●

Cisco Serial WAN Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-1T	Serial WAN Module (1-port)	NIM	●	●	●	●	●	●
NIM-2T	Serial WAN Module (2-port)	NIM	●	●	●	●	●	●
NIM-4T	Serial WAN Module (4-port)	NIM	-	●	●	●	●	●
SM-X-1T3/E3	T3/E3 Service Module (1 port)	SM-X	-	-	●	●	-	●

Cisco Async WAN Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-16A	Asynchronous Module (16-port)	NIM	●	●	●	●	●	●
NIM-24A	Asynchronous Module (24-port)	NIM	●	●	●	●	●	●

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Cisco Multimode VDSL2 and ADSL2/2+ Network Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-VAB-A	Multi Mode VDSL2/ADSL2/2+ (Annex A)	NIM	●	●	●	●	●	●
NIM-VA-B	Multi Mode VDSL2/ADSL2/2+ (Annex B)	NIM	●	●	●	●	●	●
NIM-VAB-M	Multi Mode VDSL2/ADSL2/2+ (Annex M)	NIM	●	●	●	●	●	●

Cisco 4G LTE Network Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-4G-LTE-GA	4G LTE Module for Global	NIM	●	●	●	●	●	●
NIM-4G-LTE-NA	4G LTE Module for North America	NIM	●	●	●	●	●	●
NIM-4G-LTE-ST	4G LTE Module for Sprint	NIM	●	●	●	●	●	●
NIM-4G-LTE-VZ	4G LTE Module for Verizon	NIM	●	●	●	●	●	●
NIM-4G-LTE-LA	4G LTE Module for Asia Pacific, Australia and Latam	NIM	●	●	●	●	●	●
NIM-LTEA-EA	LTE Advanced Module for Europe and North America	NIM	●	●	●	●	●	●
NIM-LTEA-LA	LTE Advanced Module for Asia Pacific, Australia and Latam	NIM	●	●	●	●	●	●

Cisco T1/E1 Voice and WAN Network Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-1MFT-T1/E1	Voice/WAN Module (1-port T1/E1)	NIM	●	●	●	●	●	●
NIM-2MFT-T1/E1	Voice/WAN Module (2-port T1/E1)	NIM	●	●	●	●	●	●
NIM-4MFT-T1/E1	Voice/WAN Module (4-port T1/E1)	NIM	-	●	●	●	●	●
NIM-8MFT-T1/E1	Voice/WAN Module (8-port T1/E1)	NIM	-	●	●	●	●	●
NIM-1CE1T1-PRI	Voice/WAN Module (1-port T1/E1/G.703)	NIM	-	●	●	●	●	●
NIM-2CE1T1-PRI	Voice/WAN Module (2-port T1/E1/G.703)	NIM	-	●	●	●	●	●
NIM-8CE1T1-PRI	Voice/WAN Module (8-port T1/E1/G.703)	NIM	-	●	●	●	●	●
SM-X-1T3/E3	T3/E3 Service Module (1 port)	SM-X	-	-	●	●	-	●

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Cisco Analog Voice Network Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-2FXSP	Voice Module (2-port FXS)	NIM	-	●	●	●	●	●
NIM-4FXSP	Voice Module (4-port FXS)	NIM	-	●	●	●	●	●
NIM-2FXO	Voice Module (2-port FXO)	NIM	-	●	●	●	●	●
NIM-4FXO	Voice Module (4-port FXO)	NIM	-	●	●	●	●	●
NIM-2FXS/4FXOP	Voice Module (2-port FXS and 4-port FXO)	NIM	-	●	●	●	●	●
NIM-4E/M	Voice Module (4-port E/M)	NIM	-	●	●	●	●	●
NIM-2BRI-NT/TE	Voice Module (2-port BRI)	NIM	-	●	●	●	●	●
NIM-4BRI-NT/TE	Voice Module (4-port BRI)	NIM	-	●	●	●	●	●

Cisco Packet Voice Digital Signal Processor Modules (PVDMS)

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
PVDM4-32	High-density Voice DSP Module (16-channel)	PVDM4	-	●	●	●	●	●
PVDM4-64	High-density Voice DSP Module (32-channel)	PVDM4	-	●	●	●	●	●
PVDM4-128	High-density Voice DSP Module (64-channel)	PVDM4	-	●	●	●	●	●
PVDM4-256	High-density Voice DSP Module (128-channel)	PVDM4	-	●	●	●	●	●
SM-X-PVDM-500	High-density Voice DSP Service Module (768-channel)	SM-X	-	-	●	●	-	●
SM-X-PVDM-1000	High-density Voice DSP Service Module (1,024-channel)	SM-X	-	-	●	●	-	●
SM-X-PVDM-2000	High-density Voice DSP Service Module (2,048-channel)	SM-X	-	-	-	● ^{*1}	-	●
SM-X-PVDM-3000	High-density Voice DSP Service Module (3,080-channel)	SM-X	-	-	-	● ^{*1}	-	●

*1 Supports up to 1,024 channels.

Cisco UCS E Series Servers

Product SKU	CPU Cores	Memory		Internal Drive Slots	RAID	Slot	Compatible Models					
		Default	Maximum				4221	4321	4331	4351	4431	4451
UCS-EN140N-M2/K9	4	8 GB	8 GB	1	-	NIM	-	●	●	●	●	●
UCS-EN120S-M2/K9	2	4 GB	16 GB	2	0/1	SM-X	-	-	●	●	-	●
UCS-E140S-M2/K9	4	8 GB	16 GB	2	0/1	SM-X	-	-	●	●	-	●
UCS-E160S-M3/K9	6	8 GB	32 GB	2	0/1	SM-X	-	-	●	●	-	●
UCS-E160D-M2/K9	6	8 GB	96 GB	3	0/1/5	SM-X	-	-	-	●	-	●
UCS-E180D-M2/K9	8	8 GB	96 GB	3	0/1/5	SM-X	-	-	-	●	-	●
UCS-E180D-M3/K9 <small>NEW</small>	8	16 GB	128 GB	3	0/1/5/10	SM-X	-	-	-	●	-	●
UCS-E1120D-M3/K9 <small>NEW</small>	12	16 GB	128 GB	4	0/1/5/10	SM-X	-	-	-	●	-	●

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Platform	Product SKU	Service (CSE) SKU
Cisco ISR 4221	ISR4221-SEC/K9	CON-SMBS-ISR4221S
	ISR4221-AX/K9	-
Cisco ISR 4321	ISR4321-SEC/K9	-
	ISR4321-V/K9	-
	ISR4321-VSEC/K9	-
	ISR4321-AX/K9	-
	ISR4321-AXV/K9	-
Cisco ISR 4331	ISR4331-SEC/K9	-
	ISR4331-V/K9	-
	ISR4331-VSEC/K9	-
	ISR4331-AX/K9	-
Cisco ISR 4351	ISR4351-SEC/K9	-
	ISR4351-V/K9	-
	ISR4351-VSEC/K9	-
	ISR4351-AX/K9	-
Cisco ISR 4351	ISR4351-AXV/K9	-

Platform	Product SKU	Service (CSE) SKU
Cisco ISR 4431	ISR4431-SEC/K9	-
	ISR4431-V/K9	-
	ISR4431-VSEC/K9	-
	ISR4431-AX/K9	-
Cisco ISR 4451	ISR4431-AXV/K9	-
	ISR4451-X-SEC/K9	-
	ISR4451-X-V/K9	-
	ISR4451-X-VSEC/K9	-
Cisco ISR 4451	ISR4451-X-AX/K9	-
	ISR4451-X-AXV/K9	-

Cisco ISR 4000 Series Bundles Comparison

Bundles	Characters Included in SKU	Bundled Licenses/Modules			
		IOS SEC	IOS UC	IOS APP	PVDM4
Security Bundles	SEC	●	-	-	-
Voice Bundles	V	-	●	-	●
Voice Security Bundles	VSEC	●	●	-	●
Application Experience Bundles	AX	●	-	●	-
Application Experience Voice Bundles	AXV	●	●	●	●

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Benefits of Migrating to Cisco ISR 4000 Series

Network Requirements for the Digital Organization	Features	Cisco ISR 1800/2800/3800 Series	Cisco ISR 1900/2900/3900 Series	Cisco ISR 4000 Series	Benefits
<p>Insights and Experiences</p>	Maximum throughput	Up to 50 Mbps	Up to 350 Mbps	Up to 4 Gbps	4 to 10 times greater performance than ISR G2 at lower price
	Cisco Application Visibility and Control (AVC)	-	●	●	Visibility into 1000+ applications for capacity planning and prioritization
	Intelligent path selection (Cisco Performance Routing [PFR] v3)	-	●	●	Real-time analytics to help ensure application experience and lower costs with path selection
	WAN optimization (Cisco Wide Area Application Services [WAAS] and Akamai)	-	●	●	Improved application performance and WAN offload with Layer 4 through 7 optimization and intelligent caching
<p>Automation and Assurance</p>	Pay-as-you-grow performance and services	-	-	●	Ability to buy what you need today and upgrade anytime without a complete equipment upgrade
	Cisco ONE Software Suites	-	●	●	Predictable OpEx, license portability, and investment protection
	Cisco Intelligent WAN app with Application Policy Infrastructure Controller Enterprise Module (APIC-EM)	-	●	●	Automated provisioning for faster SD-WAN deployments
<p>Security and Compliance</p>	Cisco Firepower Threat Defense for ISR	-	●	●	Industry-leading advanced threat defense
	Cisco Umbrella Branch (OpenDNS)	-	-	●	Protection from malware, botnets, phishing, and targeted online attacks using real-time threat intelligence
	Cisco Stealthwatch Learning Network License	-	●	●	Branch network visibility and device-level incident response with packet capture and machine learning (ISR 2900/3900 Series requires UCS E-Series blade)
	Multicore hardware VPN acceleration	-	-	●	High-performance encryption for secure WAN
<p>Virtualization</p>	Enterprise Network Functions Virtualization	-	-	●	Simplified operations and deployment of virtual network services on any platform
	Native Application Hosting	-	-	●	No need for additional network devices in the branch
	Integrated compute with Cisco UCS E-Series servers	-	●	●	Local compute resources for applications, data backup, and analytics
	Cisco IOS XE operating system	-	-	●	Multi-core processing increases network services performance and availability

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Results at the Speed of Business

Operational inefficiencies can cause quality and performance issues that directly affect your users. You need to anticipate, detect, and resolve incidents quickly to minimize any risk to the business. A few minutes of downtime can be extremely costly. That's where **Cisco Services** come in. A reliable partner to help you improve your IT operations and reduce risk.

Services: Protection Beyond Warranty

The hardware warranty included with Cisco products protects the customer in the case of hardware defects. However, many customers and partners mistakenly believe that warranty coverage is all they need and do not realize where warranty ends.

To successfully position services over hardware warranty, help your customers understand the differences and incorporate them into your key customer talking points.

A service contract provides the following primary benefits that warranty does not:

- 24x7 TAC Access
- Premium Software Images
- Part Ships to Customer Site vs. Original Ship-to Location

Technical Support Service Offering Comparison between the Different Product Warranties and a Service Contract

Warranty	Standard Warranty	Limited Lifetime Warranty	Enhanced Limited Lifetime Warranty	Service Support Contract
24 x 7 TAC Support	No access for TAC support; TAC access for RMA only	No access for TAC support; TAC access for RMA only	90 days support from date of purchase (access only during business hours)	●*1
Cisco OS Updates and Upgrades	-	-	-	●*2
Application Software Updates and Upgrades	-	-	-	●*3
Online Technical Resources (Cisco.com)	Guest access only	Guest access only	Guest access only	●
Hardware Replacement in as Little as 2 Hours	10 business days	10 business days	Next business day ship to original address	●*4
Proactive Diagnostics and Alerts	-	-	-	●*5
Renewable Contracts	-	-	-	●

*1 Cisco Support Essentials supports 8 x 5 (Callback). *2 Cisco Support Essentials supports maintenance release update only. *3 Cisco Software Support Service (SWSS) contract is required. *4 24 x 7 x 2 Service Level contract is required. *5 Cisco Smart Call Home contract is required.

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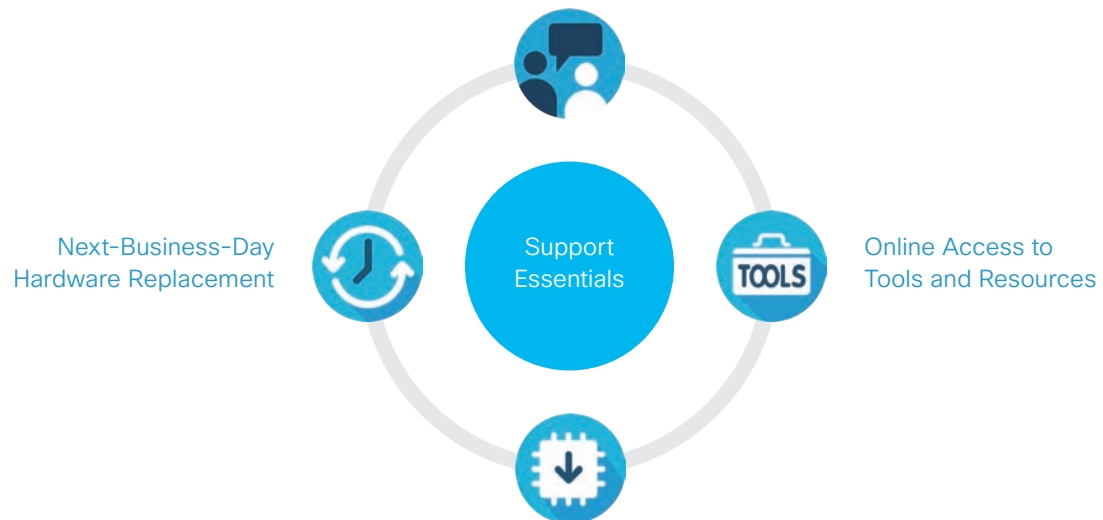
Essential Technical Support Designed for Cost-Conscious Businesses

The **Cisco Support Essentials** is designed for customers with business networks that utilize basic Cisco routers, switches and wireless access points. Their network is important to their business but not mission critical. They do not need premium support options like 2-hour hardware replacement, onsite support, or around-the clock TAC access. This service provides non-urgent callback TAC support that is accessible only during normal business hours (8 x 5, Monday through Friday), and next-business-day hardware replacement.

Cisco Support Essentials help you:

- Improves operational reliability of the business network with the technical expertise and responsiveness needed to minimize downtime
- Increases productivity by helping to reduce the effects of a potential network problem and allows IT staff to quickly resolve any issues and focus on the company's core business
- Protects network investment by extending the life of Cisco network solutions
- Provides support above and beyond product warranties
- Reduces costs, since a single uncovered service transaction can cost more than a one-year Cisco Support Essentials contract

Support from Cisco Technical Assistance Center (TAC) Engineers



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Services & Warranty Comparison

The **Cisco Support Essentials** is part of a broader Cisco Services portfolio. Be sure to consider the **Cisco Smart Net Total Care (SNTC)** as an alternative product support offer if your customer has more critical technical service needs.

If your customer is looking for support for their software products, introduce them to the **Cisco Software Support Service (SWSS)**.

Premium Services such as the **Cisco Solution Support** and the **Cisco Technical Services (TS) Advantage** may also be useful to your customer.

	Equipment Covered	Duration	Hardware Replacement	Software Updates	TAC Support
Smart Net Total Care	All ^{*1}	Renewable Contracts	Advance Replacement: <ul style="list-style-type: none"> ● 24 x 7 x 2-hours ● 24 x 7 x 4-hours ● 8 x 5 x 4-hours ● 8 x 5 x Next Business Day (NBD) ● Onsite Options 	Minor and Maintenance Releases	24 x 7
Support Essentials	Commercial Focused	Renewable Contracts	8 x 5 x NBD	Maintenance Releases	8 x 5 (Callback)
Warranty	All ^{*1}	90 Days ^{*2}	Advance Replacements (10 Days) ^{*2}	-	- ^{*3}

^{*1} Some equipment exclusions may apply. Consult a service sales representative for more details.

^{*2} This table refers to Cisco's standard hardware warranty. Additional Cisco warranties are referenced at <http://www.cisco.com/go/warranty>.

^{*3} Hardware fault identification/return materials authorization (RMA) validation only.

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How Should I Address Common Objections?



Why do I need services? Doesn't my warranty cover me?



Your warranty protects against defects in Cisco hardware or software. But if an issue does arise, it will more likely be because of the way the solution has been configured or used and will be outside the scope of the warranty.



I have never had any problems with the equipment.



Any new network application or service could affect your network operability, so it is important to have a plan in case issues do arise. The cost of uncovered service and the harm to your business of a delay resolving an outage can be significant.



I do not have the budget for services.



Cisco Support Essentials is priced specifically for companies that do not have significant resources to devote to network support services. The small annual fee is much lower than the cost of even a single uncovered support event.



I have in-house staff who can handle any network issues.



Is servicing network equipment the best use of your in-house resources? Cisco Support Essentials can help your staff more quickly diagnose and resolve any problem and get back to focusing on your business. If your staff does need to call for help, they will have the support of Cisco experts who have the most up-to-date knowledge about covered products.



I use spares when I need hardware replacement.



Can you adequately determine the number of spares you need? What if something happens to the spare? If the piece of equipment experiencing an issue is not covered by a service contract, you run the risk of costly network downtime by not having the ability to provide a timely resolution to the problem.

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For Partners

Manage Risks to Business Continuity, Resolve Problems Faster, and Operate More Efficiently

Your IT infrastructure is the lifeline that connects your business to customers and suppliers. Business success requires maintaining high service levels for your network while reducing costs and expanding your network as your business grows. The **Cisco Smart Net Total Care (SNTC)** can help you meet these objectives by providing technical services and smart capabilities that:

Resolve Problems Faster

Identify issues quickly and streamline your incident management processes to reduce network downtime and improve IT service levels.

Reduce Risk

Access to Cisco technical experts combined with smart, proactive tools and capabilities minimizes risks to business continuity.





Increase Operational Efficiency

Proactive management and automated processes mean fewer support resource requirements and lower costs for managing your network.

Cisco SNTC helps reduce downtime with fast, expert technical support and flexible hardware coverage provided by the **Cisco Technical Assistance Center (TAC)**. It also offers integrated smart capabilities, providing current information about your installed base, contracts, and security alerts to enhance the efficiency of your support workflows.

The Cisco TAC is staffed by Cisco experts and is accessible 24 hours a day, 365 days per year. Technical services available through the TAC are backed by advance hardware replacement options and fast response time, including 2-hour, 4-hour, and next-business-day options (where available). Online self-help tools include our extensive knowledge library, software downloads, and support tools designed to help you resolve network issues quickly without opening a case.

Smart capabilities are delivered through the Cisco Smart Net Total Care portal, providing actionable information and automation to support your Cisco products. Customizable screens show you up-to-date information about the service coverage, product lifecycles, and security and product alerts that apply to your network.

	Faster Problem Resolution	Risk Mitigation	Operational Efficiency
 <p>Technical Service and Incident Management</p> <ul style="list-style-type: none"> Fast expert technical support from Cisco TAC Advance hardware replacement Automated streamlined processes for incident management 	●	●	●
 <p>Security and Product Alerts</p> <ul style="list-style-type: none"> Actionable security alerts Relevant product notices (Hardware and software) Service availability alerts (Hardware and software) 	-	●	●
 <p>Service Coverage Management</p> <ul style="list-style-type: none"> Covered/uncovered, right coverage Renewal preparation and planning Budget planning 	-	●	●
 <p>Product Lifecycle Management</p> <ul style="list-style-type: none"> Up-to-date installed base information EoS/EoL, software version mismatches Automation to reduce cost and risk of manual processes 	-	●	●

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Technical Service

When a network problem affects business-critical systems, it requires fast response and a deep understanding of the technology to resolve the incident quickly. Cisco SNTC offers the following capabilities for device-level support to help you reduce the risk of business interruptions caused by network issues. These capabilities help ensure that you get rapid response for service and can quickly identify your devices and their service coverage information in order to streamline your interaction with Cisco TAC support representatives.

Advance Hardware Replacement Service Levels

Service Level	Description
24 x 7 x 2	2-hour response, 24 hours a day, 7 days per week, including holidays
24 x 7 x 4	4-hour response, 24 hours a day, 7 days a week, including holidays
8 x 5 x 4	4-hour response, local business hours based on depot time, 5 days a week
8 x 5 x NBD	Next-business-day delivery, local business hours based on depot time, 5 days a week

Onsite Support Service Levels

Service Level	Description
24 x 7 x 2	2-hour response, 24 hours a day, 7 days per week, including holidays
24 x 7 x 4	4-hour response, 24 hours a day, 7 days a week, including holidays
8 x 5 x 4	Based on depot time. 4-hour response, 9 a.m. to 5 p.m., if the request is received before 1 p.m., the service (including parts, labor, and materials) will be provided the same day. For requests received after 1 p.m., the service will be provided the following business day.
8 x 5 x NBD	Based on depot time. Next business day, 9 a.m. to 5 p.m., if the request is received before 3 p.m., the service (including parts, labor, and materials) will be provided the next business day. After 3 p.m., the service (including parts, labor, and materials) will be provided the following business day.

● Cisco TAC

The Cisco TAC is staffed by Cisco professionals certified in a broad range of Cisco products and technologies and service provider architectures. We provide you with access by phone, fax, or email 24 hours a day, 365 days a year and can assist you with product use, configuration, and troubleshooting issues. Cisco TAC objectives for response times are:

- Severity 1 and 2: Cisco will respond within one hour.
- Severity 3 and 4: Cisco will respond no later than one business day.

● Advance Hardware Replacement

With our customized hardware support service plans, you can have confidence knowing that your hardware can support your ongoing business needs. Cisco offers multiple service levels with different shipment options.

● Onsite Support

Cisco is committed to providing professional, customer-focused support services in person at your location. The [Cisco Smart Net Total Care Onsite](#) service includes installation of advance replacement parts.

● Software Updates

Cisco provides OS software updates for your licensed feature set. Software releases and any supporting documentation are available through the [Cisco Software Central](#).

● Online Self-Help Support

Cisco provides access to the Cisco Support website, which includes Cisco's extensive knowledge library, software downloads, and support tools designed to help users resolve network issues quickly without opening a case.

- You can manage problems according to the [Cisco Severity and Escalation Guidelines](#).
- Access to the [Cisco Support & Downloads](#) provides helpful technical and general information on Cisco products.



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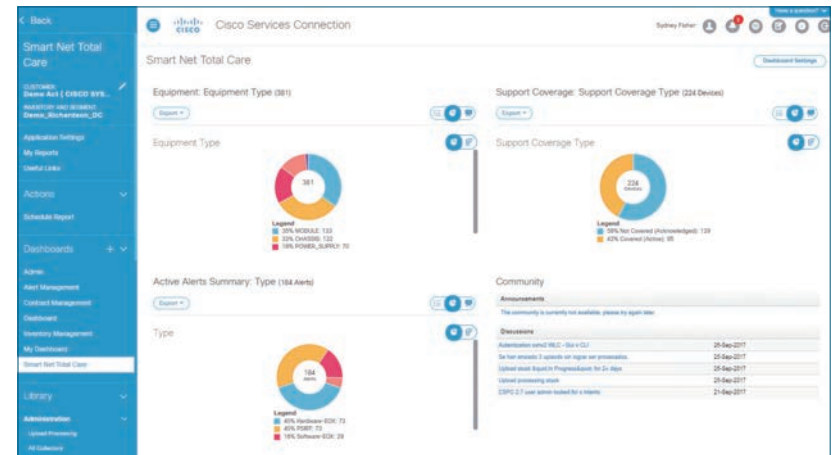
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Incident Management

All support customers are entitled to smart capabilities, including access to the Cisco SNTC portal, the mobile app, and the Cisco collector software. Support for these smart capabilities is provided through an online community monitored by Cisco and peer experts. Proactive smart capabilities are integrated with foundational support capabilities and work to help resolve problems more quickly and provide the visibility and insight you need to improve the efficiency of your support operations.



Smart Net Total Care Portal

● Portal and Interactive Dashboard

Cisco SNTC portal provides secure access to your detailed device data and an interactive dashboard that delivers the information you need to speed up the problem resolution process. The dashboard offers in-depth information to open and manage a Cisco TAC case, including configuration status, serial number, contract number, service level, and unresolved alerts. The Cisco SNTC portal allows you to manage user access and configure and generate reports and workflows. It provides access to security and product alerts, product lifecycles, and Cisco service coverage.

● Collector Software

The Cisco Common Services Platform Collector (CSPC) automatically gathers device support information for Cisco products, including serial numbers, installed memory, product IDs (PIDs), and more. This saves time and provides a more current view compared with manual efforts. The collector also identifies hardware or software versions and configuration files for your Cisco network devices.

● Smart Device Diagnostics

The **Cisco Smart Call Home** provides continuous self-monitoring of critical devices and automated remediation recommendations if a problem arises. It offers automatic notification to both you and the Cisco TAC to help expedite problem resolution. Customers who have enabled a qualified collector in their network can also enjoy the benefits of SmartData Advantage, which provides secure and automatic transmission of device details and support information for case creation. These capabilities work to speed time to resolution.

● Mobile App

Use your smartphone or tablet to get access to the Cisco TAC and support information from wherever you are. The information you need to manage service coverage, problem resolution, alerts, and more is at your fingertips from your mobile device.



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Security and Product Alerts

Staying current about Cisco alerts regarding security recommendations, device updates, and software updates can be challenging. Cisco SNTC helps preempt network disruption by allowing you to identify and manage relevant alerts for your devices. It proactively identifies which devices are affected by Cisco published product alerts and security advisories and enables you to document alert-related activity. For example, you can flag a device for immediate action, ignore an alert for a device, or enter status information for future reference.

● Hardware Alerts

Hardware alerts inform you about devices that have reached or are approaching end of life in your network.

● Software Alerts

Software alerts inform you about end-of-life issues with specific software versions you are using.

● Security Alerts

Security alerts are Product Security Incident Response Team (PSIRT) alerts that inform you about security vulnerabilities associated with specific devices in your network.

● Field Notices

Field notices inform you about significant issues (other than security vulnerability issues) with a hardware device or software version. A field notice often requires customer action such as an RMA.

An alert management workflow helps you more efficiently manage alerts by allowing you to assign status information to alerts. It then filters future alerts so that you receive only those that still require your attention. For example, an alert can be closed, or its status can be changed to “action taken.” In either case, you will not be distracted by that alert in the future. Alert status information also makes it easy for supervisors to monitor their team’s progress toward desired goals as they work on reviewing alerts and performing the required actions.



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Service Coverage Management

Without good visibility into your service coverage, there is a risk that an uncovered device will have an outage, and then you'll be scrambling to find a solution while your network is compromised. Cisco SNTC helps you ensure that your business-critical assets have the necessary service coverage to meet business needs and comply with corporate policies.

Cisco SNTC provides automated installed base and contract management functionality to help you streamline the process of ensuring proper coverage for your Cisco devices. Whereas manual methods of tracking service coverage for large or complex networks can be time consuming and prone to error, Cisco SNTC uses automation to save time and reduce risk. Regular installed base collection and flexible reporting capabilities help you manage your Cisco installed base and service contracts, identifying and tracking what's new, what's changed, what's covered, and what's not.

Maintaining up-to-date records about the coverage of your installed base also simplifies your renewal and budget planning processes. Cisco SNTC enables you to quickly identify service contracts that will be expiring at various intervals so that you can plan for renewals and identify budget requirements.

● Service Coverage Reports

Device data from installed base collections can be matched against service contracts and purchase orders to identify coverage gaps. View all service contracts and coverage levels, including 24-month advance visibility into upcoming renewal dates. Reviewing coverage information can help ensure that devices in your network have the right kind of coverage for their intended use.

● Service Coverage and Renewal Management Workflow

This feature gives you the ability to document and annotate those devices that do not require service coverage and why. You can also assign tasks to people responsible for architectural or budget planning to ask for recommendations about renewing coverage versus replacing specific devices before their service contracts expire.



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Product Lifecycle Management

Maintaining up-to-date installed base data in Cisco SNTC can provide dramatic efficiencies over manual methods while also reducing the risk of errors. Cisco SNTC can help you maintain a current view of your Cisco installed base, including device and configuration details such as serial number, product ID, Cisco IOS Software version, installed memory and firmware, IP address, hostname, and more.

By providing enhanced visibility into your installed base, Cisco SNTC allows you to:

- Quickly identify Cisco products that are reaching end of life, end of sale, or end of support
- Easily see what has been moved, added, or changed in your network
- Verify that your Cisco hardware is running current, consistent, and supported software versions
- Mitigate risk and plan for upgrades for equipment that is no longer supported

Smart capabilities within Cisco SNTC portal can enhance and control product and lifecycle visibility.

● Role-based Access Control (RBAC)

Cisco SNTC portal gives you control over the types of data that users can see. User views within the portal are based on the user's role, allowing administrators to assign roles and designate network device data visibility for portal users, including partners. For example, a certain group of network administrators may be given access to data for a specific segment of the network, and other groups of users may be restricted to specific types of information such as device configuration data or security alerts.

● Device Data File Uploads

In addition to data uploads from the Cisco collector, data can be uploaded using manual file uploads (such as from a spreadsheet) or third-party collection mechanisms. After data is uploaded into the portal, it can be analyzed and enriched with Cisco support information.



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How Should I Address Common Objections?



Why should I purchase Cisco SNTC when I have the Cisco warranty?



Cisco SNTC is much more than just a warranty. Our services provide expert troubleshooting support, advanced hardware replacement options, and extensive self-help, along with smart capabilities that empower your network operations and support staff to work more efficiently.



Why is the installed base process necessary? Don't you already know what is covered and not covered in my network?



Customers have complete freedom to purchase equipment and services through any number of channel partners, or they might have obtained equipment through acquisitions. Network devices are constantly moved to different locations or reconfigured to meet changing business needs. The collection process helps to reconcile equipment with contract records and invoicing, providing an up-to-date baseline from which contract status and coverage can be managed more effectively.



Doesn't Cisco publish security alerts on the web?



Yes, but determining which ones apply to the devices in your network is challenging. Cisco SNTC can show you the specific alerts and updates that are relevant to the devices in your network and provide a workflow to help you manage them.



I have a good handle on my Cisco inventory.



Cisco SNTC installations have 90+ percent visibility, with smart capabilities that correlate installed base, contracts, and alerts into actionable information. Customers can benefit from this information to plan and budget contracts and device lifecycles, manage alerts, and improve incident management. In addition, the automated methods of collecting and managing information about your inventory can create substantial savings by eliminating the need for manual processes.



Doesn't Cisco publish hardware and software alerts that tell me which devices have reached end of life?



Yes, but determining which ones apply to the devices in your network is challenging. Cisco SNTC can show you lifecycle-related information so you can easily see if you have these devices in your network. This also includes devices that are scheduled to reach end of service or end of life, aiding in budget planning and helping to minimize surprises.

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Complete Software Support Keeps Your Systems Running Smoothly

The **Cisco Software Support Service (SWSS)** offers comprehensive coverage for the software application products and suites that keep your systems and your business running smoothly.

Cisco SWSS is a single offer that provides end-to-end support for your Cisco software products. Entitlement to software maintenance, minor, and major release updates helps increase business value and ROI for your Cisco software products. Cisco SWSS is required for a minimum of 12 months to help you reduce network disruptions and application availability.

Access Cisco technical experts and online resources 24 hours a day, 365 days a year. Take advantage of multiyear discounts to keep your network performing as needed.

The following options are available under the Cisco SWSS framework:

- **Basic**

Provides TAC support, software release updates, and online access to Cisco resources. When sold as a subscription, the support is embedded in the product purchase price.

- **Enhanced**

Provides proactive software support and technical adoption with faster response times

- **Premium**

Prescriptive software support, designated service management, advanced technical adoption, and the fastest response times.



Seamless Support Experience
across Hybrid Deployments



Faster Deployment and Adoption
of Your Software



Improved Time
to Detect and Solve Incidents



Accelerated
Business Outcomes



Advice and Support
on Specific, Business Impactful
Software Features



Increased Return
on Your Technology Investment



Higher Levels of
Proactive Customized Support
to Achieve Your Business Objectives



Increased
Security Posture

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Deliverable		Software Support Options		
		Basic	Enhanced	Premium
Software Technical Support	24 x 7 case submission and technical assistance.	●	●	●
Initial Response	Response-time service-level objective for severity 1 and 2 cases.	60 minutes	30 minutes	15 minutes
Software Updates	Access to available software maintenance and to minor and major updates to the supported product.	●	●	●
Knowledge Base and Online Resources	Online access to standard adoption materials, marketing materials, all support tools, and product knowledge.	●	●	●
Prioritized Case Handling	Priority handling of cases by software support option.	-	Prioritized case handling over Basic tier	Prioritized case handling over Basic tier
Software Configuration Guidance	Support and guidance for software deployment, updates, migration, and performance maintenance.	-	●	●
Direct Access to Experts	Direct access to technical support experts.	-	●	●
User Adoption	Identification of customer adoption priorities by product, with use cases based on customer business processes and practices. Creation of user adoption plan with periodic plan reviews.	- ^{*1}	●	●
Technical Adoption Support for Software Integration	Support for integrating and deploying software into the IT environment. Includes initial training on best practices for interacting with Cisco technical support, ongoing guidance for supporting internal users, and periodic system risk evaluations.	-	●	●
Learning and Training	Recommendations for pertinent learning and training available on Cisco.com or the Cisco learning services website.	-	●	●
Advanced Technical Adoption Business Reviews	Review of the customer's business against the adoption plan to see how the customer is tracking against Key Performance Indicators (KPIs), plus feature usage, training, and creation of a plan for the next quarter.	-	2x/year	4x/year
Designated Service Management	Assigned expert with specialized technical knowledge of the customer's Cisco software solution. Product-level expert providing incident management, case escalation management, and change management. Provides product-level support geared toward the customer's specific environment, including proactive consultation for integrating software features into customer workflows; advice on upgrades, migrations, and expansions; and software configuration reviews and recommendations to reduce service disruptions.	-	-	●
Advanced Support Analytics	Support case analysis for Severity 1 and 2 issues, with best practices to reduce support cases. Periodic technical reviews of overall operational performance.	-	-	●

*1 User adoption services are provided with some subscriptions. Entitlement may vary.

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How Should I Address Common Objections?



No budget



- Flexible options to fit your needs and budget
- Cisco Capital Financing can help



Why purchase?



- Investment protection
- Faster time to resolve issues
- Software updates



Why should I buy Enhanced?



- Achieve better product usage
- Reduces risks and complexities
- Accelerate business outcomes
- Faster ROI



Why should I buy Premium?



- Optimize use
- Speed issue resolution
- Fastest time to value and ROI
- Alignment to business outcomes



I already have SWSS



- SWSS is a great foundational offer and is the equivalent of the Basic option of Cisco Software Support Service



I have Cisco Smart Net Total Care
Doesn't it cover my software?



- Cisco Smart Net Total Care only covers the base operating system not the applications

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