Featured Products   Portfolio   Transceiver Modules   Multigigabit

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect

  Switches

    SF/SG/SX `NEW`

    Catalyst

      2960-L

      2960-X

      3650/3850

      9200 `NEW`

    Meraki MS

  Wireless

  Routers

Services

Cisco Catalyst 9200 Series

NEW   Extend the Power of Intent-Based Networking Everywhere —
It's Highly Secure and Always On, and It Provides IT Simplicity

C9200L-24P-4X-E

UADP 2.0 Mini ASIC	Network Essentials (Perpetual)	Cisco DNA Essentials (3/5/7-Years)	Web UI CPC	Over-the-Air via Bluetooth	Blue Beacon
24-port GE PoE+ Up to 370 W	Perpetual PoE	4-port SFP+	Optional StackWise 80 Gbps	Optional Dual PS (FRU)	1 RU Rack Mount

C9200-48T-A

UADP 2.0 Mini ASIC	Network Advantage (Perpetual)	Cisco DNA Advantage (3/5/7-Years)	Web UI CPC	Over-the-Air via Bluetooth	Blue Beacon
48-port GE	Optional Network Module	Optional StackWise 160 Gbps	Optional Dual PS/Fan (FRU)	1 RU Rack Mount	

Connect

Switches

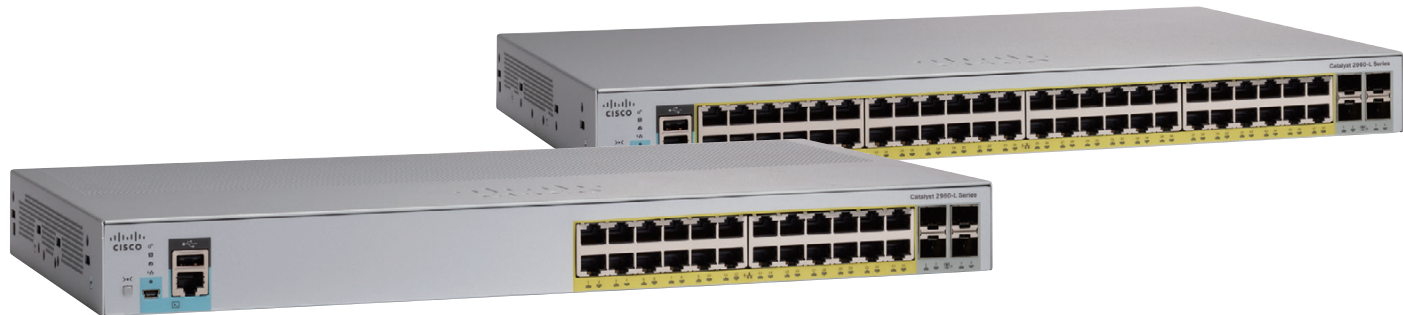Featured Products | Portfolio | Transceiver Modules | Multigigabit

Cisco Catalyst 2960-L Series

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

WS-C2960L-24PQ-LL

IOS Enhanced LAN Lite	Static Routing	RIP	Virtual Stacking	Web UI CPC	Over-the-Air via Bluetooth
24-port GE PoE+ Up to 195 W	Perpetual PoE	4-port SFP+	1 RU Rack Mount		

WS-C2960L-48PQ-LL

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

Connect
Switches

Featured Products	Portfolio	Transceiver Modules	Multigigabit

Cisco 350X/550X Series 10GE Stackable Managed Switches

NEW Now Cisco provides new models to the existing family of Cisco 250/350/350X Series Switches
Including Multigigabit Ethernet models to support 11ac Wave 2 and beyond

SX350X-08-K9-xx

Advanced Managed Features	IPv4/v6 Static Routing	sFlow RSPAN	Web UI	Embedded FindIT Probe	Smart Network Application	6-port 10GB-T	2-port 10GB-T/SFP+	Hardware Stacking Up to 4 Units	1 RU Rack Mount

SX550X-24FT-K9-xx

Advanced Managed Features	IPv4/v6 Dynamic Routing	sFlow RSPAN PBR	Web UI	Embedded FindIT Probe	Smart Network Application	12-port 10GB-T	12-port SFP+	Hardware Stacking Up to 8 Units	1 RU Rack Mount

Connect
Switches

| **Featured Products** | **Portfolio** | **Transceiver Modules** | **Multigigabit** |

Cisco 250/350/350X Series Switches

Now Cisco provides new models to the existing family of Cisco 250/350/350X Series Switches
Including Multigigabit Ethernet models to support 11ac Wave 2 and beyond

SG350-8PD-K9-xx

| Advanced Managed Features | IPv4/v6 Static Routing | sFlow RSPAN | Web UI | Embedded FindIT Probe | Smart Network Application | 6-port GE PoE+ | 2-port 2.5GE PoE+ | PoE Power Up to 124 W | 2-port 10GB-T/SFP+ | Desktop |

SG350X-24PD-K9-xx

| Advanced Managed Features | IPv4/v6 Static Routing | sFlow RSPAN | Web UI | Embedded FindIT Probe | Smart Network Application | 20-port GE PoE+ | 4-port 2.5GE 60 W PoE | PoE Power Up to 375 W | 2-port SFP+ | 2-port 10GB-T/SFP+ | Hardware Stacking Up to 4 Units | 1 RU Rack Mount |

Connect

Switches

| Featured Products | Portfolio | Transceiver Modules | Multigigabit |

	Access, Distribution, and Core Switches			Data Center Switches
	On-Premises Managed		Cloud Managed	
Overview	 SF/SG/SX Switches	 Catalyst Switches	 Meraki MS Switches	 Nexus Switches
Highlights	● Ideal for small and medium business-es ● Easy network management with Cisco FindIT Network Management	● Ideal for small and medium business-es, and organizations seeking to implement digital transformation ● Cisco Digital Network Architecture (Cisco DNA)-ready	● Provides unified visibility and control of the entire network via a single dashboard: not only switching, but also wireless, and security appliances	● Ideal for both traditional and fully automated software-defined data center deployments
Cisco Start Products	● Cisco 95 Series Unmanaged Switches ● Cisco 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	● Cisco Catalyst 2960-L Series ● Cisco Catalyst 2960-X Series ● Cisco Catalyst 3650 Series ● Cisco Catalyst 3850 Series ● Cisco Catalyst 9200 Series	● Cisco Meraki MS120 Series ● Cisco Meraki MS210 Series ● Cisco Meraki MS220 Series ● Cisco Meraki MS225 Series	● Cisco Nexus 9348GC-FXP

Featured Products	Portfolio	**Transceiver Modules**	Multigigabit

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

SKU	Description	Max Distance	SF/SG/SX 95/110	220	250	350	350X	550X	Catalyst 2960-L	2960-X	3650	3850	9200	9300	Nexus 9348
GLC-GE-100FX	100BASE-FX SFP	2 km	–	–	–	–	–	–	–	●	●	●	●	●	–

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

SKU	Description	Max Distance	SF/SG/SX 95/110	220	250	350	350X	550X	Catalyst 2960-L	2960-X	3650	3850	9200	9300	Nexus 9348
MGBT1	1000BASE-T SFP	100 m	●	●	●	●	●	●	–	–	–	–	–	–	–
MGBSX1	1000BASE-SX SFP	500 m	●	●	●	●	●	●	–	–	–	–	–	–	–
MGBLX1	1000BASE-LX SFP	10 km	●	●	●	●	●	●	–	–	–	–	–	–	–
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	–	–	–	–	–	–	●	●	●	●	●	●	–

Featured Products	Portfolio	Transceiver Modules	Multigigabit

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

SKU	Description	Max Distance	Compatible Series												
			SF/SG/SX						Catalyst						Nexus
			95/110	220	250	350	350X	550X	2960-L	2960-X	3650	3850	9200	9300	9348
SFP-H10GB-CU1M	10GBASE-CU SFP+	1 m	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-H10GB-CU1-5M	10GBASE-CU SFP+	1.5 m	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-H10GB-CU2M	10GBASE-CU SFP+	2 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-H10GB-CU2-5M	10GBASE-CU SFP+	2.5 m	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-H10GB-CU3M	10GBASE-CU SFP+	3 m	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-H10GB-CU5M	10GBASE-CU SFP+	5 m	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-H10GB-ACU7M	10GBASE-ACU SFP+	7 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-H10GB-ACU10M	10GBASE-ACU SFP+	10 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC1M	10GBASE-AOC SFP+	1 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC2M	10GBASE-AOC SFP+	2 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC3M	10GBASE-AOC SFP+	3 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC5M	10GBASE-AOC SFP+	5 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC7M	10GBASE-AOC SFP+	7 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-AOC10M	10GBASE-AOC SFP+	10 m	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-SR-S	S-class 10GBASE-SR SFP+	400 m	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-10G-SR	10GBASE-SR SFP+	400 m	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-10G-LRM	10GBASE-LRM SFP+	300 m	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-10G-LR-S	S-class 10GBASE-LR SFP+	10 km	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-10G-LR	10GBASE-LR SFP+	10 km	–	–	●*1	●*2	●	●	–	●	●	●	●*3	●	●
SFP-10G-BXD-I	10GBASE-BX SFP+	10 km	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-10G-BXU-I	10GBASE-BX SFP+	10 km	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-10G-BX40D-I	10GBASE-BX SFP+	40 km	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-10G-BX40U-I	10GBASE-BX SFP+	40 km	–	–	–	–	–	–	–	●	●	●	●*3	●	–
SFP-10G-ER-S	S-class 10GBASE-ER SFP+	40 km	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-ER	10GBASE-ER SFP+	40 km	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-ZR-S	S-class 10GBASE-ZR SFP+	80 km	–	–	–	–	–	–	–	●	●	●	●*3	●	●
SFP-10G-ZR	10GBASE-ZR SFP+	80 km	–	–	–	–	–	–	–	●	●	●	●*3	●	●

*1 Cisco 250X Series only. *2 SG350-8PD only. *3 10GE models & 10GE Network Module only.

Cisco Start Catalog

May - July, 2019

Featured Products	Portfolio	Transceiver Modules	Multigigabit

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

SKU	Description	Max Distance	Compatible Series												
			SF/SG/SX						Catalyst						Nexus
			95/110	220	250	350	350X	550X	2960-L	2960-X	3650	3850	9200	9300	9348
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	–	–	–	–	–	–	–	–	–	–	–	–	●
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	–	–	–	–	–	–	–	–	–	●	–	●	●

Connect

Switches

Featured Products	Portfolio	Transceiver Modules	Multigigabit

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

| SKU | Description | Max Distance | Compatible Series | | | | | | | | | | | | | Nexus |
| | | | SF/SG/SX | | | | | | Catalyst | | | | | | | |
			95/110	220	250	350	350X	550X	2960-L	2960-X	3650	3850	9200	9300	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	–	–	–	–	–	–	–	–	–	–	–	–	●

Connect

Switches

Featured Products	**Portfolio**	**Transceiver Modules**	**Multigigabit**

▌ 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	-	-	-	●

Connect
Switches

WEB

| **Featured Products** | **Portfolio** | **Transceiver Modules** | **Multigigabit** |

▌ 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 (1GE, 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 1GE.

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

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 (10GE) with copper or optical fiber cables. However, there are some difficulties associated with the deployment of 10GE-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. 10GE 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 10GE 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 10GE.

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.


11ac Wave 1 AP
Max 1.3 Gbps

11ac Wave 2 AP
Max 3.5 Gbps

Category 5e cables
supports **2.5 Gbps** and **5 Gbps**.
Category 6a cables support **10 Gbps**.

mGig
Access Switch

mGig
Core Switch

PoE (15.4 W), **PoE+** (30 W)
and **UPOE** (60 W) are supported.
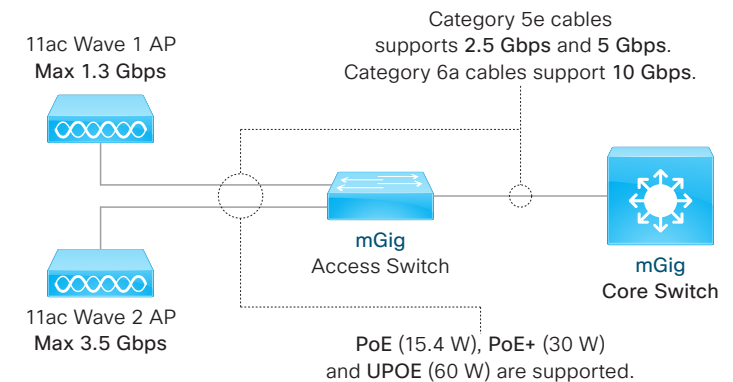
▌ Cisco Catalyst Multigigabit Technology (mGig): Speeds and Cables

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

Connect - Switches
Cisco SF/SG/SX Switches

WEB

| Overview | Positioning Map | Platform Spec | FindIT |

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

The **Cisco SF/SG/SX 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.
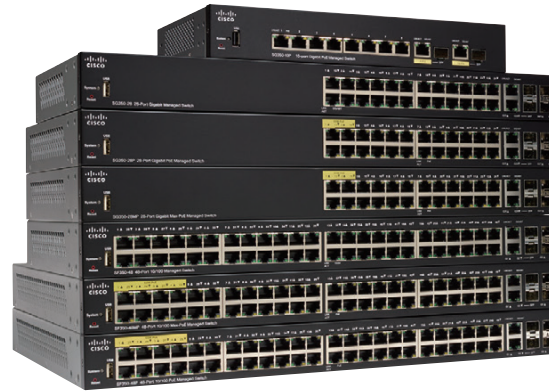
▌ Lineup

● **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 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 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.

Connect – Switches
Cisco SF/SG/SX Switches

WEB

| Overview | **Positioning Map** | Platform Spec | FindIT |

Managed

350 Series Managed Switches
- SNA, PnP client
- IPv6 static routing
- sFlow, RSPAN
- 2R3C policing
- PoE+ and 60 W PoE
- PSE/PD models

350X Series Stackable Managed Switches
- 10GE uplink
- all 10GE models
- 4 units true stacking
- PoE+ and 60 W PoE

550X Series Stackable Managed Switches
- Redundant power and fan
- 10GE uplink
- all 10GE models
- 8 unit true stacking
- PoE+ and 60 W PoE

Smart

220 Series Smart Switches
- Enhanced smart features
- All ports PoE+

250 Series Smart Switches
- Advanced smart features
- Static routing, ACL, CLI
- All ports PoE+

Unmanaged

95/110 Series Unmanaged Switches
- Basic connectivity
- 1/2 ports PoE

Function, Flexibility, Scalability → More

Cisco SF/SG/SX Switches

| Overview | Positioning Map | Platform Spec | FindIT |

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	24	–	–	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-xxxxxxxx	–	8	–	–	–	–	–	–	4	–	32 W	af	–	–	External	●	–	–
SG110-16-xx	CON-SMBS-S1G016xx	–	16	–	–	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG110-16HP-xx	CON-SMBS-G016HPxx	–	16	–	–	–	–	–	–	8	–	64 W	af	–	–	Internal	●	–	1 RU
SG110-24-xx	CON-SMBS-S1G024xx	–	22	–	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG110-24HP-xx	CON-SMBS-xxxxxxxx	–	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.

Connect - Switches
Cisco SF/SG/SX Switches

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	CON-SMBS-SF2502xx	24	–	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SF250-24P-K9-xx	CON-SMBS-SF25024x	24	–	2	2	–	–	–	–	24	–	185 W	af/at	–	–	Internal	–	–	1 RU
SF250-48-K9-xx	CON-SMBS-SFxxxxxx	48	–	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SF250-48HP-K9-xx	CON-SMBS-SF25xxxx	48	–	2	2	–	–	–	–	48	–	195 W	af/at	–	–	Internal	–	–	1 RU
SG250-08-K9-xx	CON-SMBS-SG2500xx	–	8	–	–	–	–	–	–	–	–	–	–	1	–	External	●	–	1 RU
SG250-08HP-K9-xx	CON-SMBS-SG25008x	–	8	–	–	–	–	–	–	8	–	45 W	af/at	–	–	External	●	–	1 RU
SG250-10P-K9-xx	CON-SMBS-xxxxxx	–	8	–	–	–	–	–	–	8	–	62 W	af/at	2	●	External	●	–	1 RU
SG250-18-K9-xx	CON-SMBS-SG25018x	–	16	–	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG250-26-K9-xx	CON-SMBS-xxxxxx	–	24	–	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG250-26HP-K9-xx	CON-SMBS-xxxxxx	–	24	–	2	–	–	–	–	24	–	100 W	af/at	–	–	Internal	–	–	1 RU
SG250-26P-K9-xx	CON-SMBS-xxxxxx	–	24	–	2	–	–	–	–	24	–	195 W	af/at	–	–	Internal	–	–	1 RU
SG250-50-K9-xx	CON-SMBS-SG250xxx	–	48	–	2	–	–	–	–	–	–	–	–	–	–	Internal	–	–	1 RU
SG250-50HP-K9-xx	CON-SMBS-SG2505xx	–	48	–	2	–	–	–	–	48	–	192 W	af/at	–	–	Internal	–	–	1 RU
SG250-50P-K9-xx	CON-SMBS-SG2505xx	–	48	–	2	–	–	–	–	48	–	375 W	af/at	–	–	Internal	–	–	1 RU
SG250X-24-K9-xx	CON-SMBS-SG25xxxx	–	24	–	–	–	2	2	–	–	–	–	–	–	–	Internal	–	–	1 RU
SG250X-24P-K9-xx	CON-SMBS-xxxxxx	–	24	–	–	–	2	2	–	24	–	195 W	af/at	–	–	Internal	–	–	1 RU
SG250X-48-K9-xx	CON-SMBS-SG25xxxx	–	48	–	–	–	2	2	–	–	–	–	–	–	–	Internal	–	–	1 RU
SG250X-48P-K9-xx	CON-SMBS-SG25xxxx	–	48	–	–	–	2	2	–	48	–	382 W	af/at	–	–	Internal	–	–	1 RU

Cisco SF/SG/SX Switches

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+	mGig/SFP+	Ports	60 W Ports	Power Budget	IEEE 802.3	Input Ports	Pass through				
SF350-08-K9-xx	CON-SMBS-SF3xxxxx	8	–	–	–	–	–	–	–	–	–	–	–	–	–	External	●	–	1 RU
SF352-08-K9-xx	CON-SMBS-SF3xxxxx	8	–	–	2	–	–	–	–	–	–	–	–	–	–	External	●	–	1 RU
SF352-08P-K9-xx	CON-SMBS-xxxxxxxx	8	–	–	2	–	–	–	–	8	–	62 W	af/at	–	–	External	●	–	1 RU
SF352-08MP-K9-xx	CON-SMBS-SFxxxxx	8	–	–	2	–	–	–	–	8	–	128 W	af/at	–	–	External	●	–	1 RU
SF350-24-K9-xx	CON-SMBS-SF35xxxx	24	–	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SF350-24P-K9-xx	CON-SMBS-SF3xxxxx	24	–	2	2	–	–	–	–	24	4	185 W	af/at	–	–	Internal	–	–	1 RU
SF350-24MP-K9-xx	CON-SMBS-SFxxxxx	24	–	2	2	–	–	–	–	24	4	375 W	af/at	–	–	Internal	–	–	1 RU
SF350-48-K9-xx	CON-SMBS-xxxxxxxx	48	–	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SF350-48P-K9-xx	CON-SMBS-SF35xxxx	48	–	2	2	–	–	–	–	48	8	382 W	af/at	–	–	Internal	–	–	1 RU
SF350-48MP-K9-xx	CON-SMBS-SF35xxxx	48	–	2	2	–	–	–	–	48	8	740 W	af/at	–	–	Internal	–	–	1 RU
SG350-8PD-K9-xx	CON-SMBS-SG3xxxxx	–	6	–	–	2	–	–	2	8	–	124 W	af/at	–	–	Internal	●	–	1 RU
SG350-10-K9-xx	CON-SMBS-SG3xxxxx	–	8	–	2	–	–	–	–	–	–	–	–	2	●	External	●	–	1 RU
SG350-10P-K9-xx	CON-SMBS-SG35xxxx	–	8	–	2	–	–	–	–	8	–	62 W	af/at	2	●	External	●	–	1 RU
SG350-10MP-K9-xx	CON-SMBS-SG3xxxxx	–	8	–	2	–	–	–	–	8	–	124 W	af/at	2	●	External	●	–	1 RU
SG355-10P-K9-xx	CON-SMBS-SG35xxxx	–	8	–	2	–	–	–	–	8	–	62 W	af/at	2	●	Internal	●	–	1 RU
SG350-10SFP-K9-xx	CON-SMBS-SG3501	–	–	8	2	–	–	–	–	–	–	–	–	–	–	External	●	–	1 RU
SG350-20-K9-xx	CON-SMBS-SG3xxxxx	–	16	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG350-28-K9-xx	CON-SMBS-xxxxxxxx	–	24	2	2	–	–	–	–	–	–	–	–	–	–	Internal	●	–	1 RU
SG350-28P-K9-xx	CON-SMBS-xxxxxxxx	–	24	2	2	–	–	–	–	24	4	195 W	af/at	–	–	Internal	–	–	1 RU
SG350-28MP-K9-xx	CON-SMBS-xxxxxxxx	–	24	2	2	–	–	–	–	24	4	382 W	af/at	–	–	Internal	–	–	1 RU
SG350-28SFP-K9-xx	CON-SMBS-SG3xxxxx	–	–	26	2	–	–	–	–	–	–	–	–	–	–	Internal	–	–	1 RU
SG350-52-K9-xx	CON-SMBS-SG3xxxxx	–	48	2	2	–	–	–	–	–	–	–	–	–	–	Internal	–	–	1 RU
SG350-52P-K9-xx	CON-SMBS-SG35052x	–	48	2	2	–	–	–	–	48	8	375 W	af/at	–	–	Internal	–	–	1 RU
SG350-52MP-K9-xx	CON-SMBS-SG3xxxxx	–	48	2	2	–	–	–	–	48	8	740 W	af/at	–	–	Internal	–	–	1 RU

Cisco Start Catalog

May – July, 2019

WEB

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect

　Switches

　　SF/SG/SX NEW

　　Catalyst

　　　2960-L

　　　2960-X

　　　3650/3850

　　　9200 NEW

　　Meraki MS

　Wireless

　Routers

Services

Cisco SF/SG/SX Switches

| Overview | Positioning Map | **Platform Spec** | FindIT |

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect
  Switches
    SF/SG/SX NEW
    Catalyst
      2960-L
      2960-X
      3650/3850
      9200 NEW
    Meraki MS
  Wireless
  Routers

Services

▍ 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	CON-SMBS-xxxxxxxx	–	–	–	–	8	–	–	2	8	4	240 W	af/at	–	–	Internal	–	●	1 RU
SG350X-24-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG350X-24P-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	24	4	195 W	af/at	–	–	Internal	–	●	1 RU
SG350X-24MP-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	24	4	382 W	af/at	–	–	Internal	–	●	1 RU
SG350X-24PD-K9-xx	CON-SMBS-xxxxxxxx	–	20	–	–	4	–	2	2	24	4	375 W	af/at	–	–	Internal	–	●	1 RU
SG350X-48-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG350X-48P-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	48	8	382 W	af/at	–	–	Internal	–	●	1 RU
SG350X-48MP-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	48	8	740 W	af/at	–	–	Internal	–	●	1 RU
SG350XG-2F10-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	10	2	–	–	–	–	–	–	–	Internal	–	●	1 RU
SG350XG-24T-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	22	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG350XG-24F-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	–	22	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG350XG-48T-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	46	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SX350X-08-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	6	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SX350X-12-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	10	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SX350X-24-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	20	–	4	–	–	–	–	–	–	Internal	–	●	1 RU
SX350X-24F-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	–	20	4	–	–	–	–	–	–	Internal	–	●	1 RU
SX350X-52-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	48	4	–	–	–	–	–	–	–	Internal	–	●	1 RU

Connect – Switches
Cisco SF/SG/SX Switches

WEB

| Overview | Positioning Map | **Platform Spec** | 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	CON-SMBS-xxxxxxxx	24	–	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SF550X-24P-K9-xx	CON-SMBS-xxxxxxxx	24	–	–	–	–	–	2	2	24	8	195 W	af/at	–	–	Internal	–	●	1 RU
SF550X-24MP-K9-xx	CON-SMBS-xxxxxxxx	24	–	–	–	–	–	2	2	24	8	382 W	af/at	–	–	Internal	–	●	1 RU
SF550X-48-K9-xx	CON-SMBS-xxxxxxxx	48	–	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SF550X-48P-K9-xx	CON-SMBS-xxxxxxxx	48	–	–	–	–	–	2	2	48	16	382 W	af/at	–	–	Internal	–	●	1 RU
SF550X-48MP-K9-xx	CON-SMBS-xxxxxxxx	48	–	–	–	–	–	2	2	48	16	740 W	af/at	–	–	Internal	–	●	1 RU
SG550X-24-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG550X-24P-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	24	8	195 W	af/at	–	–	Internal	–	●	1 RU
SG550X-24MP-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	24	8	382 W	af/at	–	–	Internal	–	●	1 RU
SG550X-24MPP-K9-xx	CON-SMBS-xxxxxxxx	–	24	–	–	–	–	2	2	24	8	740 W	af/at	–	–	Internal	–	●	1 RU
SG550X-48-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG550X-48P-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	48	16	382 W	af/at	–	–	Internal	–	●	1 RU
SG550X-48MP-K9-xx	CON-SMBS-xxxxxxxx	–	48	–	–	–	–	2	2	48	16	740 W	af/at	–	–	Internal	–	●	1 RU
SG550XG-8F8T-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	8	8	–	–	–	–	–	–	–	Internal	–	●	1 RU
SG550XG-24T-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	22	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG550XG-24F-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	–	22	2	–	–	–	–	–	–	Internal	–	●	1 RU
SG550XG-48T-K9-xx	CON-SMBS-xxxxxxxx	–	–	–	–	–	46	–	2	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-12F-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	–	10	2	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-16FT-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	8	8	–	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-24-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	20	–	4	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-24FT-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	12	12	–	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-24F-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	–	20	4	–	–	–	–	–	–	Internal	–	●	1 RU
SX550X-52-K9-xx NEW	CON-SMBS-xxxxxxxx	–	–	–	–	–	48	4	–	–	–	–	–	–	–	Internal	–	●	1 RU

Connect - Switches
Cisco SF/SG/SX Switches

Overview	Positioning Map	Platform Spec	FindIT

▌ 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/SX Switches**, **Cisco Wireless Access Points (WAP)**, and **Cisco RV Series Routers**. 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**

  Full-time network management tool designed to manage Cisco SF/SG/SX 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.

● **Cisco FindIT Network Discovery Utility**

  Simple toolbar on your web browser to discover Cisco devices on the network and display basic device information, inventory, and new firmware updates to aid in the configuration and speed the deployment of Cisco SF/SG/SX Switches, Cisco Wireless Access Points (WAP), and Cisco RV Series Routers.
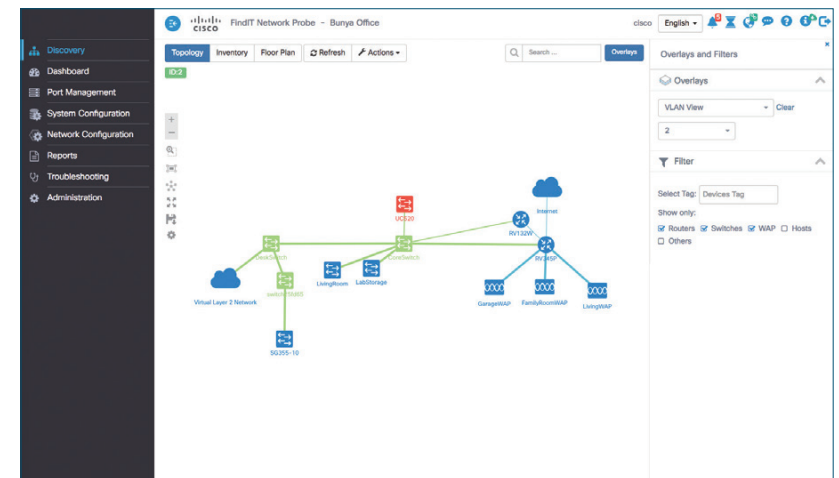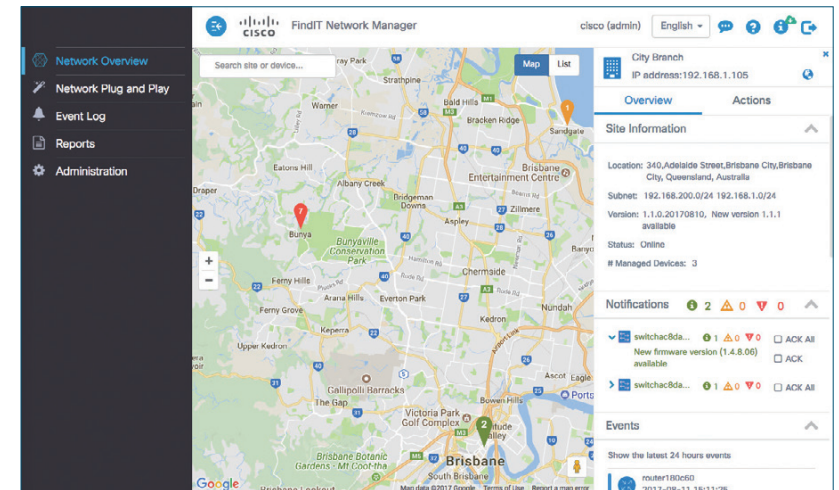
Connect - Switches

Cisco SF/SG/SX Switches

WEB

Overview	Positioning Map	Platform Spec	FindIT

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

The **Cisco FindIT Network Manager** is designed to manage **Cisco SF/SG/SX 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 Cisco Active Advisor
- Remote access to sites without requiring a VPN
- One-click collection of diagnostic data for technical support

The Cisco FindIT Network Manager comprises two components:

- **Cisco FindIT Network Probe**

  Installed at each site and discovers and directly manages the network devices at that site.

  Distributed as virtual machine images, Linux installers, and embedded on Cisco 250/350/350X/550X Series switches and Cisco RV 160/260/340 Series routers.

- **Cisco FindIT Network Manager**

  Provides a summary view and alerts for each site in the network.

  Distributed as virtual machine images including Amazon Machine Image, and Linux installers.
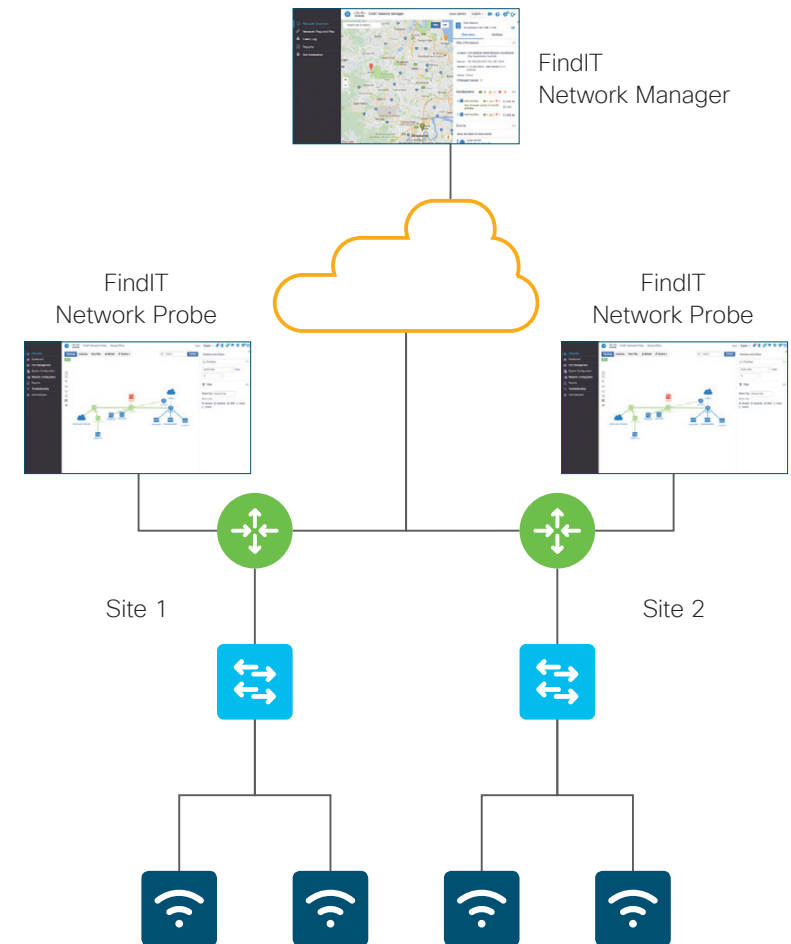
FindIT
Network Manager

FindIT
Network Probe

FindIT
Network Probe

Site 1

Site 2

Connect - Switches
Cisco SF/SG/SX Switches

| Overview | Positioning Map | Platform Spec | **FindIT** |

Cisco FindIT Network Manager: Ordering and Licensing Guide

To place an order for Cisco FindIT Network Manager licenses, the following steps are required:

- Identify the number of licenses and type required
- Obtain a Cisco Smart Account if you do not already have one
- Place an order with your preferred supplier, and provide the supplier with your Cisco Smart Account details

Licensing

Cisco FindIT Network Manager is licensed based on the number of infra-structure devices in your network. Device licenses are required only for the Cisco SF/SG/SX Switches products in your network.
You may manage up to 10 Cisco SF/SG/SX Switches devices for evaluation purposes without a license.
To download the software, visit the following web site:

www.cisco.com/go/findit-sw

Obtaining a Cisco Smart Account

Cisco Smart Account is a new solution that provides a central location to manage Cisco software licenses across an entire organization, allowing partners and customers to optimize their software management.
To obtain a Cisco Smart account, visit Cisco Software Central and select the Request a Smart Account option under the Administration heading.

software.cisco.com

Ordering information

You can order Cisco FindIT Network Manager licenses in three different ways:

- As standalone license packs that will expire at the end of the term
- As a subscription with automatic invoicing and renewal at the end of the term
- By selecting the metered option for Cisco FindIT Network Manager for AWS and obtaining licenses through your AWS account (No Cisco Smart Account required)

Not all Cisco resellers offer the subscription option, so check with your re-seller prior to making a selection.

Cisco FindIT Network Manager Device Licenses (Standalone)

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

Cisco FindIT Network Manager Device Licenses (Subscription)[*1]

Product SKU	Description
LS-FINDITNM-DEV	Device subscription license

*1 LS-FINDITNM-SUB is required in CCW. See Ordering Guide for details.

Overview   Positioning Map   Platform Spec   **FindIT**

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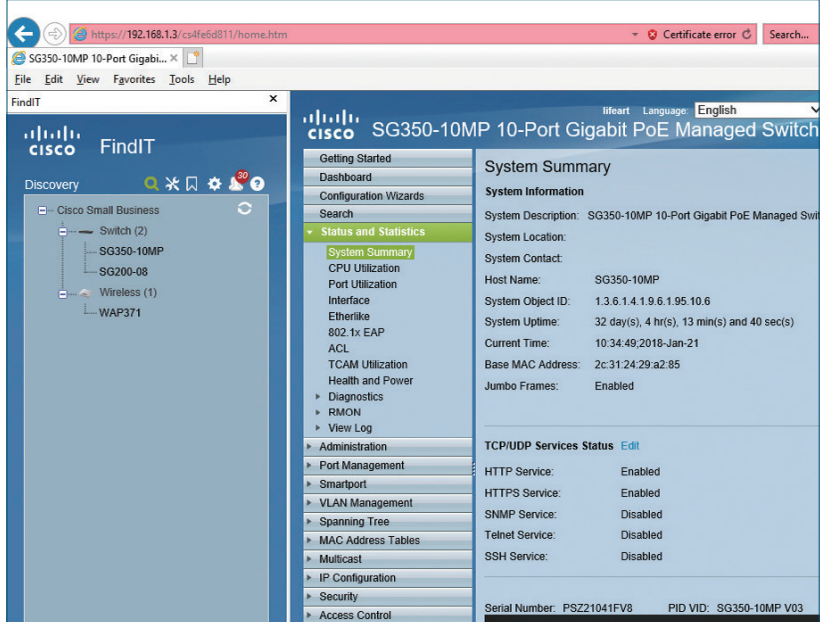
The **Cisco FindIT Network Discovery Utility** can be used by network administrators on the go. It integrates with your web browser and allows you to easily discover Cisco SF/SG/SX Switches and Cisco Wireless Access Points (WAP), display detailed information about devices, and click to download firmware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

Connect - Switches
Cisco Catalyst Switches

| **Overview** | **Positioning Map** | **Cisco IOS (C2K/C3K)** | **Cisco IOS (C9K)** |

▌ 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.
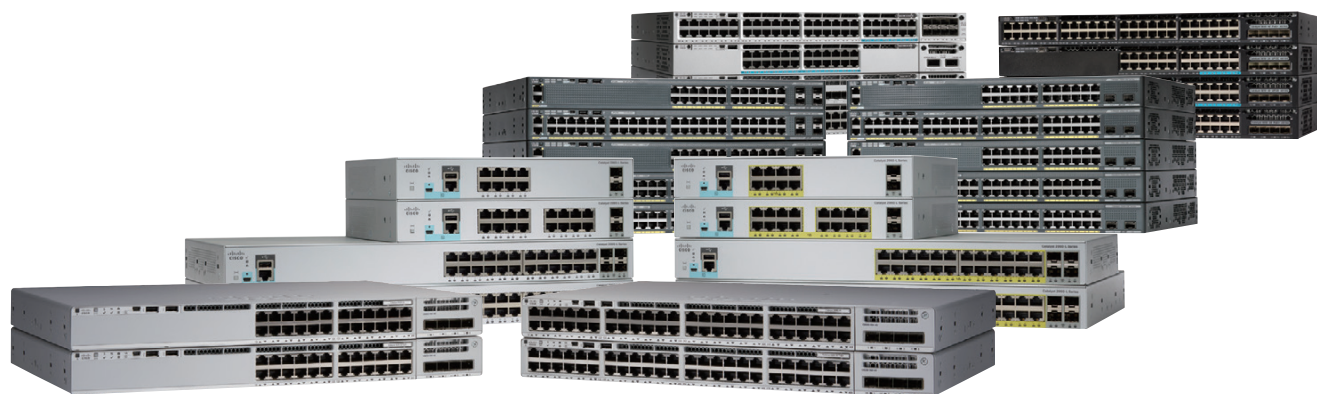
▌ Lineup (in this catalog)

● **Cisco Catalyst 2960-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.

● **Cisco Catalyst 9200 Series** ▬NEW▬

The next-generation stackable layer 2 and layer 3 access switches that provide the foundational building blocks for the Cisco Digital Network Architecture (Cisco DNA).

Connect – Switches
Cisco Catalyst Switches

| Overview | Positioning Map | Cisco IOS (C2K/C3K) | Cisco IOS (C9K) |

Modular Core	Catalyst 6800
Fixed Core	Catalyst 3850 Fiber Catalyst 4500-X Catalyst 9500
Modular Access	Catalyst 4500E Catalyst 9400
Fixed Access	Catalyst 3650/3850 Catalyst 9300
	Catalyst 2960-Plus Catalyst 2960-X Catalyst 9200 **NEW**
Access/ Compact	Catalyst 2960-L
Compact	Catalyst 2960-CX Catalyst 3560-CX

Performance & Scalability → High

Connect - Switches
Cisco Catalyst Switches

WEB

Overview	Positioning Map	Cisco IOS (C2K/C3K)	Cisco IOS (C9K)

The **Cisco Catalyst 2000/3000 Series** incorporates the **Cisco IOS (Inter-network Operating System)**, which is a high-performance network infra-structure 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 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 Servises (IPS)
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	●*2
NSF	–	–	–	●	●
MPLS	–	–	–	–	●*2

*1 Catalyst 2960-L Series only.   *2 Catalyst 3650/3850 Series are not supported.

Connect - Switches
Cisco Catalyst Switches

| Overview | Positioning Map | **Cisco IOS (C2K/C3K)** | Cisco IOS (C9K) |

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	–	–	–	●	●
Netflow-Lite	–	●	●	●	●
Flexible Netflow	–	–	–	●	●
EnergyWise	●	●	●	●	●
GOLD (GOLD-Lite)	●	●	●	●	●
OBFL	●	●	●	●	●

*1 Catalyst 2960-X 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	–	●	●
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-X 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 Authentification	●*1	●	●	●	●
TrustSec SXP	–	●	●	●	●
TrustSec SGT/SGACL	–	●*2	●	●	●
MACsec	–	–	●	●	●
NEAT	–	●	●	●	●

*1 Catalyst 2960-L Series only.
*2 Catalyst 3650/3850 Series are not supported.

Connect - Switches

Cisco Catalyst Switches

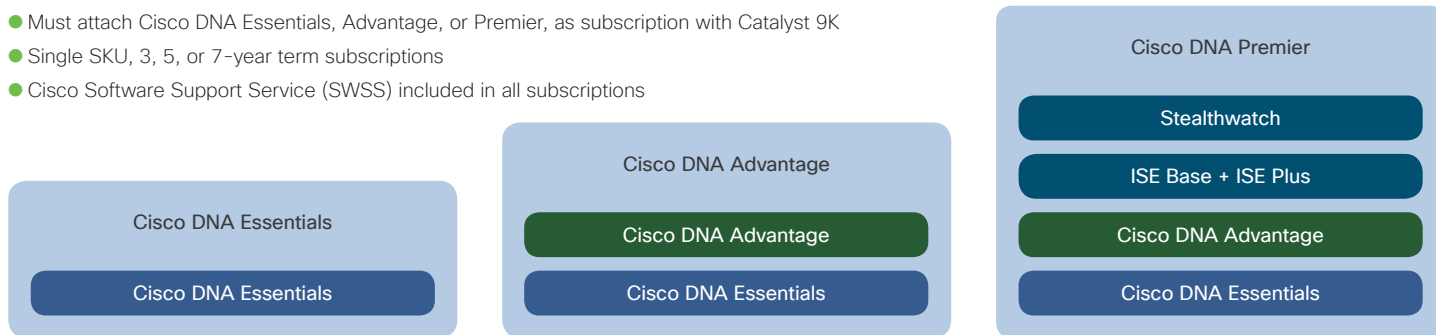WEB

| Overview | Positioning Map | Cisco IOS (C2K/C3K) | Cisco IOS (C9K) |

The **Cisco Catalyst 9000 Series** is the next generation of our best-selling Cisco Catalyst line of enterprise LAN switches and operates with the same feature-rich Cisco IOS XE 16 and field-reprogrammable UADP ASIC technology already widely deployed with the Cisco Catalyst 3650/3850 Series. Cisco Catalyst 9000 Series also takes advantage of a shared DevOps toolkit for open programmability, analytics, and telemetry. This means you can expect to have all of the advanced Layer 2 and Layer 3 capabilities that you have come to expect and more, at twice the capacity.

One key difference, however, is the new subscription licensing model that helps make ordering easy. Rather than the multiple, perhaps confusing, licensing options, Cisco Catalyst 9000 Series is offered with three options — **Cisco DNA Essentials**, **Cisco DNA Advantage**, and **Cisco DNA Premier**. Each of these are offered in 3, 5, and 7 year options.

- **Cisco DNA Essentials** delivers base automation, monitoring, and management. This solution includes Cisco DNA Essentials and embedded Cisco Software Support. With this solution, customers can enable basic automation and monitoring.
- **Cisco DNA Advantage** delivers policy-based automation with SD-Access, monitoring, and Cisco DNA Assurance. This solution includes Cisco DNA Essentials and Cisco DNA Advantage, with embedded Cisco Software Support. Customers need to buy ISE Base, ISE Plus, and Stealthwatch to enable all Cisco DNA use cases..
- **Cisco DNA Premier** delivers policy-based automation with SD-Access, Cisco DNA Assurance, and enhanced security. This solution includes Cisco DNA Essentials, Cisco DNA Advantage, ISE Base, ISE Plus, and Stealthwatch, along with embedded Cisco Software Support. Customers can enable all Cisco DNA use cases with Cisco DNA Premier. Offered as a single SKU.

- Must attach Cisco DNA Essentials, Advantage, or Premier, as subscription with Catalyst 9K
- Single SKU, 3, 5, or 7-year term subscriptions
- Cisco Software Support Service (SWSS) included in all subscriptions

Cisco DNA Premier

Stealthwatch

ISE Base + ISE Plus

Cisco DNA Advantage

Cisco DNA Essentials

Cisco DNA Advantage

Cisco DNA Advantage

Cisco DNA Essentials

Cisco DNA Essentials

Cisco DNA Essentials

Network Essentials (Perpetual)
for Layer 2 Routed Access

Network Advantage (Perpetual)
for Full Layer 3 Routing

Connect - Switches
Cisco Catalyst Switches

WEB

| Overview | Positioning Map | Cisco IOS (C2K/C3K) | **Cisco IOS (C9K)** |

▌ Network Essentials and Advantage Package Features

Feature		Network Essentials	Network Advantage
Switch Fundamentals	Layer 2	●	●
	RIP	●	●
	EIGRP Stub	●	●
	OSPF	●	●
	PIM Stub Multicast	●	●
	PVLAN	●	●
	VRRP	●	●
	PBR	●	●
	CDP	●	●
	QoS	●	●
	802.1X	●	●
	CoPP	●	●
	SXP	●	●
	IP SLA Responder	●	●

Feature		Network Essentials	Network Advantage
Advanced Switch Capabilities and Scale	EIGRP	–	●
	HSRP	–	●
	IS-IS	–	●
	BSR	–	●
	MSDP	–	●
	IP SLA	–	●
	OSPF	–	●
Network Segmentation	VRF	–	●
	VXLAN	–	●
	LISP	–	●
	SGT	–	●
Automation	NETCONF	●	●
	RESTCONF	●	●
	YANG	●	●
	PnP Agent	●	●
	PnP	●	●
Telemetry and Visibility	Model-Driven Telemetry	●	●
	Sampled NetFlow	●	●
	SPAN	●	●
	RSPAN	●	●
Security	MACsec-128	●	●*1

*1 Catalyst 9300 Series supports MACsec-256.

Connect - Switches
Cisco Catalyst Switches

WEB

Overview	Positioning Map	Cisco IOS (C2K/C3K)	Cisco IOS (C9K)

Cisco DNA Essentials, Advantage, and Premier Package Features

Feature		Cisco DNA Essentials	Cisco DNA Advantage	Cisco DNA Premier
Switch Features	Advanced Telemetry and Visibility Full Flexible NetFlow, EEM	●	●	●
Cisco DNA Center Features	Day-0 Network Bring-up Automation Cisco Network Plug-and-Play application, network settings, device credentials, LAN automation, host onboarding	●	●	●
	Element Management Discovery, inventory, topology, software image, licensing, and configuration management	●	●	●
	Element Management Patch management	–	●	●
	Basic Assurance Health dashboards – Network, Client, Application; switch and wired client health monitoring	●	●	●
	SD-Access Policy-based automation and assurance for wired and wireless	–	●	●
	SD-Access Embedded Wireless[*1] C9800 Wireless Software Package to enable wireless controller functionality	–	●[*1]	●[*1]
	Network Assurance and Analytics Global insights, trends, compliance, custom reports; switch 360, wired client 360; fabric and non-fabric insights; app health, app 360, app performance (loss, latency, jitter)	–	●	●

*1 Catalyst 9300 Series only. Cisco DNA License (Advantage or Premier Package) is required per access point.

Connect - Switches - Cisco Catalyst Switches
Cisco Catalyst 2960-L Series

WEB

Overview	**Platform Spec**	**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 ⏲ (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
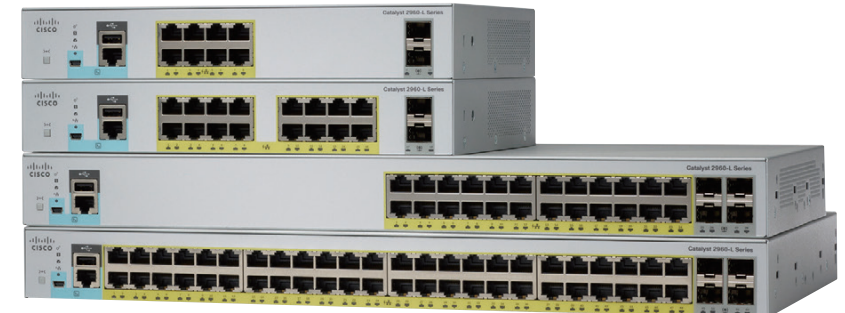
Cisco Catalyst 2960-L Series

WEB

| Overview | Platform Spec | Why 2960-L? |

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-24TQ-LL	CON-SMBS-WSQC296L	LAN Lite	24	–	–	4	–	–	–	Internal	●	1 RU
WS-C2960L-24PQ-LL	CON-SMBS-WSCP296L	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
WS-C2960L-48TQ-LL	CON-SMBS-WSTQ296L	LAN Lite	48	–	–	4	–	–	–	Internal	●	1 RU
WS-C2960L-48PQ-LL	CON-SMBS-WSC9296L	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.

Cisco Catalyst 2960-L Series

WEB

Overview	Platform Spec	**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 units, 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.

Connect - Switches - Cisco Catalyst Switches

Cisco Catalyst 2960-X Series

WEB

Overview   **Platform Spec**   **Modules & Accessories**

▌ 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 Flex-Stack-Plus and FlexStack-Extended, application visibility and control, Power over Ethernet Plus (PoE+), innovative power management, and Smart Operations.
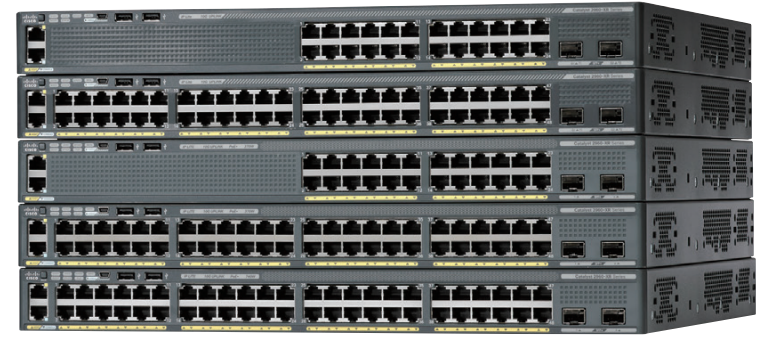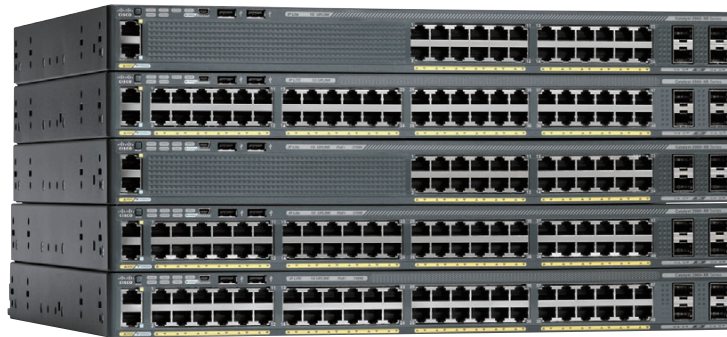
▌ Highlights

- 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 (Cisco 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.

Connect – Switches – Cisco Catalyst Switches
Cisco Catalyst 2960-X Series

WEB

Overview | **Platform Spec** | **Modules & Accessories**

Product SKU*1	Service (CSE) SKU	Cisco IOS	Downlinks GE	Uplinks GE	SFP	SFP/SFP+	PoE Ports	Power Budget	IEEE 802.3	Power Supply Default PS	Ext RPS	Dual PS	Fanless	Flex Stack	Rack Mount
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

Cisco Catalyst 2960-X Series

WEB

Overview	Platform Spec	Modules & Accessories

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

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

Cisco FlexStack Modules

Product SKU	Description
C2960X-STACK	Cisco FlexStack-Plus Module
C2960X-FIBER-STK	Cisco FlexStack-Extended Fiber Module
C2960X-HYBRID-STK	Cisco FlexStack-Extended Hybrid 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.

Connect - Switches - Cisco Catalyst Switches
Cisco Catalyst 3650/3850 Series

WEB

| Overview | Platform Spec (3650) | Platform Spec (3850) | Licenses & Accessories | Bundles |

▍ 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 1GE, 2 x 10GE SFP+, 4 x 10GE SFP+, 8 x 10GE SFP+, or 2 x 40GE QSFP (Catalyst 3650)
- Optional uplink modules with 4 x 1GE SFP, 2 x 10GE SFP+, 4 x 10GE SFP+, 8 x 10GE SFP+, or 2 x 40GE QSFP (Catalyst 3850, all copper models & most fiber models)
- Fixed uplinks with 40GE 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 Stack-Wise-480 (Catalyst 3850)
- authenticating and encrypting packets between switches and endpoints: MACsec-128 (all models) and MACsec-256 (Catalyst 3850, Multigigabit and 10GE fiber models)
- Cisco Digital Network Architecture (Cisco DNA)-ready: Cisco DNA services can be delivered through Cisco ONE or Cisco DNA Licenses

Cisco Start Catalog

May – July, 2019

Cisco Catalyst 3650/3850 Series

WEB

Overview	Platform Spec (3650)	Platform Spec (3850)	Licenses & Accessories	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-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

Cisco Catalyst 3650/3850 Series

WEB

| Overview | Platform Spec (3650) | Platform Spec (3850) | Licenses & Accessories | 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-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

Connect - Switches - Cisco Catalyst Switches

Cisco Catalyst 3650/3850 Series

WEB

| Overview | **Platform Spec (3650)** | Platform Spec (3850) | Licenses & Accessories | 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-C3650-8X24PD-L	CON-SMBS-WSDC3658	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

Cisco Catalyst 3650/3850 Series

Overview | **Platform Spec (3650)** | **Platform Spec (3850)** | **Licenses & Accessories** | **Bundles**

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect
  Switches
    SF/SG/SX NEW
    Catalyst
      2960-L
      2960-X
      3650/3850
      9200 NEW
    Meraki MS
  Wireless
  Routers

Services

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

Cisco Catalyst 3650/3850 Series

WEB

Overview	Platform Spec (3650)	**Platform Spec (3850)**	Licenses & Accessories	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-C3850-24XU-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

Connect - Switches - Cisco Catalyst Switches
Cisco Catalyst 3650/3850 Series

WEB

Overview	Platform Spec (3650)	Platform Spec (3850)	Licenses & Accessories	Bundles

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 in CCW.

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 in CCW.

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 in CCW for Catalyst 3650.
L-LIC-CT3850-UPG is required in CCW for Catalyst 3850.

Cisco Catalyst 3650/3850 Series

WEB

| Overview | Platform Spec (3650) | Platform Spec (3850) | **Licenses & Accessories** | Bundles |

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

Cisco Catalyst 3650/3850 Series

Overview	Platform Spec (3650)	Platform Spec (3850)	Licenses & Accessories	Bundles

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

Connect - Switches - Cisco Catalyst Switches

Cisco Catalyst 9200 Series NEW

WEB

| **Overview** | **Platform Spec** | **Licenses & Accessories** | **Transition Guide** |

▌ Extend Intent-Based Networking Everywhere

The **Cisco Catalyst 9200 Series** switches are Cisco's latest addition to the fixed enterprise switching access platform, and are built for security, resiliency, and programmability. These switches play an integral role as entry-level switches in Cisco Software-Defined Access (SD-Access), Cisco's lead enterprise architecture.

Cisco Catalyst 9200 Series provides enterprise-level resiliency and keeps your business up and running seamlessly with FRU power supplies and fans, modular uplinks, cold patching, perpetual Power over Ethernet (PoE), and the industry's highest Mean Time Between Failures (MTBF).

▌ Highlights

- Cisco IOS XE: A modern operating system that supports model-driven programmability, streaming telemetry, and patching
- Cisco UADP 2.0 Mini with integrated CPU offers customers optimized scale with better cost structure
- Fixed uplinks with 4 x 1GE SFP or 4 x 10GE SFP+ (Catalyst 9200L)
- Optional uplink modules with 4 x 1GE SFP or 4 x 10GE SFP+ (Catalyst 9200)
- PoE+ output (PSE models)
- Resiliency with field-replaceable redundant power supplies (Catalyst 9200L & 9200) and fans (Catalyst 9200 only)
- Operational efficiency with optional backplane stacking, supporting stacking bandwidth up to 80 Gbps with Cisco StackWise-80 (Catalyst 9200L) or up to 160 Gbps with Cisco StackWise-160 (Catalyst 9200)

- Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access
- Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems
- Advanced network monitoring using Full Flexible NetFlow
- Cisco Software-Defined Access (SD-Access):
- Simplified operations and deployment with policy-based automation from edge to cloud managed with Cisco Identity Services Engine (ISE)
- Network assurance and improved resolution time through Cisco DNA Center
- Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network

Connect – Switches – Cisco Catalyst Switches

Cisco Catalyst 9200 Series NEW

| Overview | Platform Spec | Licenses & Accessories | Transition Guide |

Cisco Catalyst 9200 Series

Product SKU	Service (CSE) SKU	Software Package	Downlinks GE	SFP	SFP/SFP+	Network Module Slot	PoE Ports	Power Budget Default	Power Budget Max	Power Supply Default	Power Supply Max	Stack-Wise	Rack Mount
C9200L-24T-4G-E	-	Essentials	24	4	-	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-24T-4G-A	-	Advantage	24	4	-	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-24P-4G-E	-	Essentials	24	4	-	-	24	370 W	740 W	600 W AC x 1	600 W AC x 2	80	1 RU
C9200L-24P-4G-A	-	Advantage	24	4	-	-	24	370 W	740 W	600 W AC x 1	600 W AC x 2	80	1 RU
C9200L-48T-4G-E	-	Essentials	48	4	-	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-48T-4G-A	-	Advantage	48	4	-	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-48P-4G-E	-	Essentials	48	4	-	-	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	80	1 RU
C9200L-48P-4G-A	-	Advantage	48	4	-	-	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	80	1 RU
C9200L-24T-4X-E	-	Essentials	24	-	4	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-24T-4X-A	-	Advantage	24	-	4	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-24P-4X-E	-	Essentials	24	-	4	-	24	370 W	740 W	600 W AC x 1	600 W AC x 2	80	1 RU
C9200L-24P-4X-A	-	Advantage	24	-	4	-	24	370 W	740 W	600 W AC x 1	600 W AC x 2	80	1 RU
C9200L-48T-4X-E	-	Essentials	48	-	4	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-48T-4X-A	-	Advantage	48	-	4	-	-	-	-	125 W AC x 1	125 W AC x 2	80	1 RU
C9200L-48P-4X-E	-	Essentials	48	-	4	-	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	80	1 RU
C9200L-48P-4X-A	-	Advantage	48	-	4	-	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	80	1 RU
C9200-24T-E	-	Essentials	24	-	-	1	-	-	-	125 W AC x 1	125 W AC x 2	160	1 RU
C9200-24T-A	-	Advantage	24	-	-	1	-	-	-	125 W AC x 1	125 W AC x 2	160	1 RU
C9200-24P-E	-	Essentials	24	-	-	1	24	370 W	740 W	600 W AC x 1	600 W AC x 2	160	1 RU
C9200-24P-A	-	Advantage	24	-	-	1	24	370 W	740 W	600 W AC x 1	600 W AC x 2	160	1 RU
C9200-48T-E	-	Essentials	48	-	-	1	-	740 W	-	125 W AC x 1	125 W AC x 2	160	1 RU
C9200-48T-A	-	Advantage	48	-	-	1	-	740 W	-	125 W AC x 1	125 W AC x 2	160	1 RU
C9200-48P-E	-	Essentials	48	-	-	1	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	160	1 RU
C9200-48P-A	-	Advantage	48	-	-	1	48	740 W	1,440 W	1,000 W AC x 1	1,000 W AC x 2	160	1 RU

Cisco Catalyst 9200 Series NEW

WEB

| Overview | Platform Spec | **Licenses & Accessories** | Transition Guide |

Cisco DNA Licenses for Cisco Catalyst 9200 Series (Catalyst 9200L)

Software Package	Product SKU			Compatible Models
	3-Years	5-Years	7-Years	
Cisco DNA Essentials	C9200L-DNA-E-24-3Y	C9200L-DNA-E-24-5Y	C9200L-DNA-E-24-7Y	24-port Catalyst 9200L (-E, Network Essentials)[*1]
	C9200L-DNA-E-48-3Y	C9200L-DNA-E-48-5Y	C9200L-DNA-E-48-7Y	48-port Catalyst 9200L (-E, Network Essentials)[*2]
Cisco DNA Advantage	C9200L-DNA-A-24-3Y	C9200L-DNA-A-24-5Y	C9200L-DNA-A-24-7Y	24-port Catalyst 9200L (-A, Network Advantage)[*3]
	C9200L-DNA-A-48-3Y	C9200L-DNA-A-48-5Y	C9200L-DNA-A-48-7Y	48-port Catalyst 9200L (-A, Network Advantage)[*4]

*1 C9200L-DNA-E-24 is required in CCW. *2 C9200L-DNA-E-48 is required in CCW.
*3 C9200L-DNA-A-24 is required in CCW. *4 C9200L-DNA-A-48 is required in CCW.

Cisco DNA Licenses for Cisco Catalyst 9200 Series (Catalyst 9200)

Software Package	Product SKU			Compatible Models
	3-Years	5-Years	7-Years	
Cisco DNA Essentials	C9200-DNA-E-24-3Y	C9200-DNA-E-24-5Y	C9200-DNA-E-24-7Y	24-port Catalyst 9200 (-E, Network Essentials)[*1]
	C9200-DNA-E-48-3Y	C9200-DNA-E-48-5Y	C9200-DNA-E-48-7Y	48-port Catalyst 9200 (-E, Network Essentials)[*2]
Cisco DNA Advantage	C9200-DNA-A-24-3Y	C9200-DNA-A-24-5Y	C9200-DNA-A-24-7Y	24-port Catalyst 9200 (-A, Network Advantage)[*3]
	C9200-DNA-A-48-3Y	C9200-DNA-A-48-5Y	C9200-DNA-A-48-7Y	48-port Catalyst 9200 (-A, Network Advantage)[*4]

*1 C9200-DNA-E-24 is required in CCW. *2 C9200-DNA-E-48 is required in CCW.
*3 C9200-DNA-A-24 is required in CCW. *4 C9200-DNA-A-48 is required in CCW.

TIP **Ordering and Licensing Guide**

You must order a **Cisco DNA License** in order to purchase a switch.
A **Cisco Smart Account** is mandatory when ordering a Cisco DNA License.
The Cisco Smart Account is a new solution that provides a central location to manage Cisco software licenses across an entire organization, allowing partners and customers to optimize their software management.
To obtain a Cisco Smart Account, visit **Cisco Software Central** and select the [**Request a Smart Account**] option under the [**Administration**] heading.

WEB software.cisco.com

Connect - Switches - Cisco Catalyst Switches

Cisco Catalyst 9200 Series NEW

WEB

| Overview | Platform Spec | Licenses & Accessories | Transition Guide |

Power Supply Modules for Cisco Catalyst 9200 Series

Product SKU	Description
PWR-C5-125WAC/2	125 W AC Power Supply Module
PWR-C5-600WAC/2	600 W AC Power Supply Module
PWR-C5-1KWAC/2	1,100 W AC Power Supply Module

Network Modules for Cisco Catalyst 9200 Series

Product SKU	Description
C9200-NM-4G	4 x 1GE SFP Network Module
C9200-NM-4X	4 x 10GE SFP+ Network Module

Cisco StackWise-80/160 Modules for Cisco Catalyst 9200 Series

Product SKU	Description
C9200L-STACK-KIT	StackWise-80 Module for Catalyst 9200L
C9200-STACK-KIT	StackWise-160 Module for Catalyst 9200

TIP **Cisco StackWise-80/160**

The **Cisco StackWise-80/160** provides stacking of **up to eight** Cisco Catalyst 9200 Series switches with the optional **Cisco StackWise-80/160 Modules**.
Mixed stacking is not supported. You cannot stack fixed (Catalyst 9200L) with modular (Catalyst 9200) models, or other Catalyst switches, e.g., Cisco Catalyst 2960-X and 2960-XR Series.

Cisco StackWise-80/160 Scalability & Performance

Stack Member	Stack Bandwidth	Stack Limit
Catalyst 9200L (Fixed Models) with Same License Level	80 Gbps	4
Catalyst 9200 (Modular Models) with Same License Level	160 Gbps	8

Cisco Catalyst 9200 Series `NEW`

Overview	Platform Spec	Licenses & Accessories	**Transition Guide**

▌ Benefits of Upgrading to Cisco Catalyst 9200 Series

Feature		Catalyst 2960-X	Catalyst 2960-XR	Catalyst 9200	Benefits
Scale and Performance	Bandwidth per Stack	80 Gbps	80 Gbps	80 Gbps 160 Gbps	Twice the density at nearly the same price
	1/10GE Uplinks	4 x 1GE 2 x 10 GE	4 x 1GE 2 x 10 GE	4 x 1GE 4 x 10 GE	
Advanced Security	Full Flexible NetFlow	–	–	●	
	TrustSec and SGT	●	●	●	Orchestrate role-based access to corporate resources
	Trustworthy Systems	●*1	●*1	●	
	Native MACsec	–	–	●	AES-128, MACsec-128
Simplicity and Automation	IOS XE OS	–	–	●	Single common network OS across switching, routing, wireless, and IoT
	Model-Driven Pogrammability	–	–	●	Standards-based programmable interfaces
	Streaming Telemetry	–	–	●	Rich contextual insights
	SD-Access Programmability	–	–	●	Automation and Assurance

*1 Except some models.

Side Navigation

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect

 Switches

  SF/SG/SX `NEW`

  Catalyst

   2960-L

   2960-X

   3650/3850

   9200 `NEW`

  Meraki MS

 Wireless

 Routers

Services

Cisco Catalyst 9200 Series NEW

| Overview | Platform Spec | Licenses & Accessories | **Transition Guide** |

WEB

▌ Transition Map

Existing Model		New Model	
Catalyst 2960-X	**Catalyst 2960-XR**	**Catalyst 9200**	**Description**
WS-C2960X-24TS	–	**C9200L-24T-4G**	24 x GE, 4 x SFP
WS-C2960X-24PS WS-C2960X-24PSQ	–	**C9200L-24P-4G**	24 x GE PoE+, 4 x SFP
WS-C2960X-48TS	–	**C9200L-48T-4G**	48 x GE, 4 x SFP
WS-C2960X-48LPS WS-C2960X-48FPS	–	**C9200L-48P-4G**	48 x GE PoE+, 4 x SFP
WS-C2960X-24TD	–	**C9200L-24T-4X**	24 x GE, 4 x SFP+
WS-C2960X-24PD	–	**C9200L-24P-4X**	24 x GE PoE+, 4 x SFP+
WS-C2960X-48TD	–	**C9200L-48T-4X**	48 x GE, 4 x SFP+
WS-C2960X-48LPD WS-C2960X-48FPD	–	**C9200L-48P-4X**	48 x GE PoE+, 4 x SFP+
–	WS-C2960XR-24TS WS-C2960XR-24TD	**C9200-24T**	24 x GE 4 x SFP or 4 x SFP+ network modules are supported
–	WS-C2960XR-24PS WS-C2960XR-24PD	**C9200-24P**	24 x GE PoE+ 4 x SFP or 4 x SFP+ network modules are supported
–	WS-C2960XR-48TS WS-C2960XR-48TD	**C9200-48T**	48 x GE 4 x SFP or 4 x SFP+ network modules are supported
–	WS-C2960XR-48LPS WS-C2960XR-48FPS WS-C2960XR-48LPD WS-C2960XR-48FPD	**C9200-48P**	48 x GE PoE+ 4 x SFP or 4 x SFP+ network modules are supported

Connect - Switches

Cisco Meraki MS Cloud Managed Switches

WEB

| **Overview** | **Positioning Map** | **Platform Spec** | **Licenses & Accessories** | **Why Meraki MS?** |

▌ 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. Cisco Meraki MS provides groundbreaking tools for remote troubleshooting, so that scaling a Meraki network need not mean scaling complexity.
Cisco Meraki MS includes features for streamlining the work of the network engineer, from deployment to security to troubleshooting.
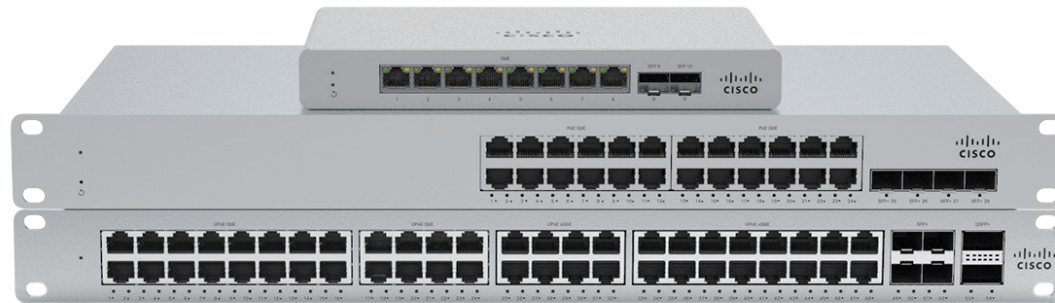
▌ Highlights

- **Multigigabit Ethernet**: Provide the higher performance demanded by the latest access points over existing cabling

- **Virtual Stacking**: Simultaneously configure thousands of ports across standalone and physically stacked switches, regardless of location

- **Layer 7 Visibility**: Cisco Meraki MS makes it easy to understand how valuable network resources are being used

- **Layer 3 Scalability**: Build large, resilient networks using dynamic routing protocols and warm spare technology

- **Voice & Video QoS**: Give latency sensitive applications the priority and bandwidth they deserve with configurable QoS

- **Network Topology**: View the network in real-time, showing devices and their connections and even monitor network-wide health

- **Remote Live Tools**: Powerful tools for identifying and correcting issues, even from thousands of miles away

- **Enterprise Security**: Protect the wired network from both external and internal threats

Connect – Switches
Cisco Meraki MS Cloud Managed Switches

WEB

| Overview | **Positioning Map** | Platform Spec | Licenses & Accessories | Why Meraki MS? |

Core					MS410 Series	MS425 Series	MS450 Series
Premium Access (Layer 3)				MS250 Series	MS350 Series		
Access (Layer 2+)		MS210 Series	MS225 Series				
Access (Layer 2)	MS120 Series						
Compact	MS120-8						

Performance → High

Connect – Switches

Cisco Meraki MS Cloud Managed Switches

WEB

| Overview | Positioning Map | **Platform Spec** | Licenses & Accessories | Why Meraki MS? |

▌ Cisco Meraki MS120 Compact Series

Product SKU	Switching Capacity	Downlinks			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 MS120 Series

Product SKU	Switching Capacity	Downlinks			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	104 Gbps	48	4	–	48	740 W	af/at	Internal	–	–	–	●	–	●

Connect - Switches

Cisco Meraki MS Cloud Managed Switches

WEB

| Overview | Positioning Map | **Platform Spec** | Licenses & Accessories | Why Meraki MS? |

Cisco Meraki MS210 Series

Product SKU	Switching Capacity	Downlinks			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	
			Uplinks											
MS210-24-HW	56 Gbps	24	4	–	–	–	–	Internal	●	–	●	●	80 Gbps	●
MS210-24P-HW	56 Gbps	24	4	–	24	370 W	af/at	Internal	●	–	–	●	80 Gbps	●
MS210-48-HW	104 Gbps	48	4	–	–	–	–	Internal	●	–	●	●	80 Gbps	●
MS210-48LP-HW	104 Gbps	48	4	–	48	370 W	af/at	Internal	●	–	–	●	80 Gbps	●
MS210-48FP-HW	104 Gbps	48	4	–	48	740 W	af/at	Internal	●	–	–	●	80 Gbps	●

Cisco Meraki MS225 Series

Product SKU	Switching Capacity	Downlinks			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	
			Uplinks											
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	●

Connect – Switches
Cisco Meraki MS Cloud Managed Switches

▍ 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 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

Connect - Switches
Cisco Meraki MS Cloud Managed Switches

Overview	Positioning Map	Platform Spec	Licenses & Accessories	Why Meraki MS?

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

Getting Started

What's New

Feature Story

Collaborate

Compute

Security

Connect

Switches

SF/SG/SX `NEW`

Catalyst

2960-L

2960-X

3650/3850

9200 `NEW`

Meraki MS

Wireless

Routers

Services

Cisco Meraki MS Cloud Managed Switches

| Overview | Positioning Map | Platform Spec | Licenses & Accessories | **Why Meraki MS?** |

Cloud Management Architecture

Cisco Meraki's architecture provides feature rich network management without on-site management appliances or Wi-Fi controllers.

Every Meraki device —including access points, switches, security appliances, and cameras— connects over the Internet to Meraki's datacenters, which run Meraki's cloud management platform.

These connections, secured via SSL, utilize a patented protocol that provides real time visibility and control, yet uses minimal bandwidth overhead (typically 1 kbps or less.)

In place of traditional command-line based network configuration, Meraki provides a rich web based dashboard, providing visibility and control over up to tens of thousands of Meraki devices, anywhere in the world. Tools, designed to scale to large and distributed networks, make policy changes, firmware updates, deploying new branches, etc. simple and expedient, regardless of size or location. Meraki's real time protocols combine the immediacy of on-premise management applications with the simplicity and centralized control of a cloud application.

Connect - Switches
Cisco Meraki MS Cloud Managed Switches

Overview	Positioning Map	Platform Spec	Licenses & Accessories	Why Meraki MS?

Network Topology

Network topology helps IT admins quickly see and troubleshoot connections at a glance, and it's built right into the Cisco Meraki dashboard.

● **Intelligent Mapping of Physical Links**

Network topology automatically maps network architectures, showing how Meraki security, switching, and wireless devices are connected — including redundant links disabled by the STP to prevent data loops. In the topology view, squares represent Cisco Meraki MX, rectangles represent Cisco Meraki MS, and circles represent Cisco Meraki MR. Non-Meraki equipment is also detected and displayed (as diamonds). Because Cisco Meraki MS automatically listens for LLDP and CDP broadcasts from connected devices, it may be possible to detect the manufacturer, model type, IP address, and more of third-party equipment. This is done automatically, with no overlay software needed.

● **Dynamic Device Searching**

Quickly zero in on the devices that matter by using the dynamic search tools available in the topology dashboard view. Search for network devices by name, tag, or device type to see how equipment is deployed. Devices not meeting search criteria will be automatically dimmed, so that sought-for equipment is highlighted. Conversely, if you are viewing details for a specific client, like a laptop or mobile phone, from within the Cisco Meraki dashboard, clicking the "topology" link will highlight which network device that client is directly connected to — enabling a quick assessment of upstream connectivity.

● **Usage Statistics and Status**

See at a glance where trouble lies on your network: devices displayed in the topology view are color-coded based on connectivity health. Cisco Meraki devices alerting red or yellow can be immediately clicked into for remote diagnosis and troubleshooting. Hovering over individual network links displays the active ports at each termination point, the number of clients using that link for the last day, link speed, and link usage. These statistics make it easy to pinpoint which links are the most heavily-trafficked and service the most clients.
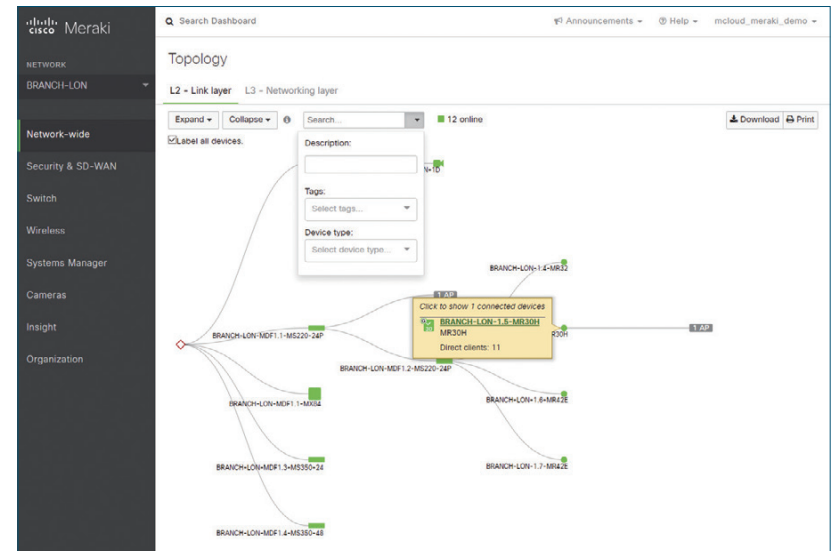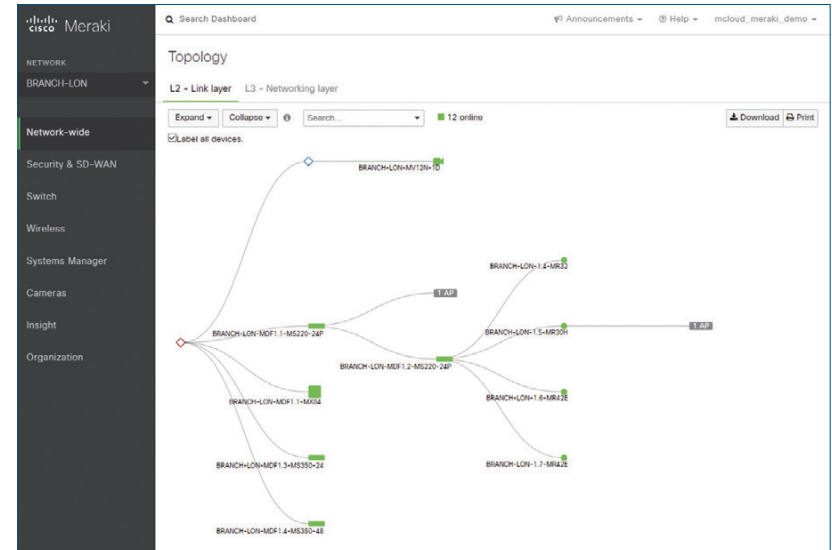
Connect - Switches

Cisco Meraki MS Cloud Managed Switches

WEB

| Overview | Positioning Map | Platform Spec | Licenses & Accessories | **Why Meraki MS?** |

▍ Virtual Stacking

Cisco Meraki MS switches can be treated as a virtual stack without requiring a physical connection, and regardless of their location. This means that switches can be in different physical locations (e.g., New York and California) and administrators still have unprecedented visibility and manageability into all the ports in the virtual stack, greatly simplifying management of large distributed networks. Switches that are in the same physical location can be physically stacked and managed using Virtual Stacking in the same way.

Virtual Stacking is not limited to four or eight switches per stack; in fact, thousands of ports can be members of a single virtual stack. This leads to a different challenge in network management, namely how to manage thousands of ports in a single pane-of-glass without overwhelming the administrator? Meraki solves this challenge by integrating switch names, tags, and a live, Google-like search. Administrators can name switches and even ports as required, for example, city location and floor assignment, or any other logical classification used by the organization. Tagging enables a second level of classification for even further logical grouping. For example, all VoIP ports can be tagged with "VoIP" and wireless access point ports with "WLAN," enabling easy searching and sorting through ports via the integrated live search. Finally, critical ports can be assigned tags such as "uplink," so administrators can receive per-port email or text message alerts of potential network issues. Admins can also see in real time the status of each switch and every single port in the virtual stack.

Connect
Wireless

Featured Products   Portfolio
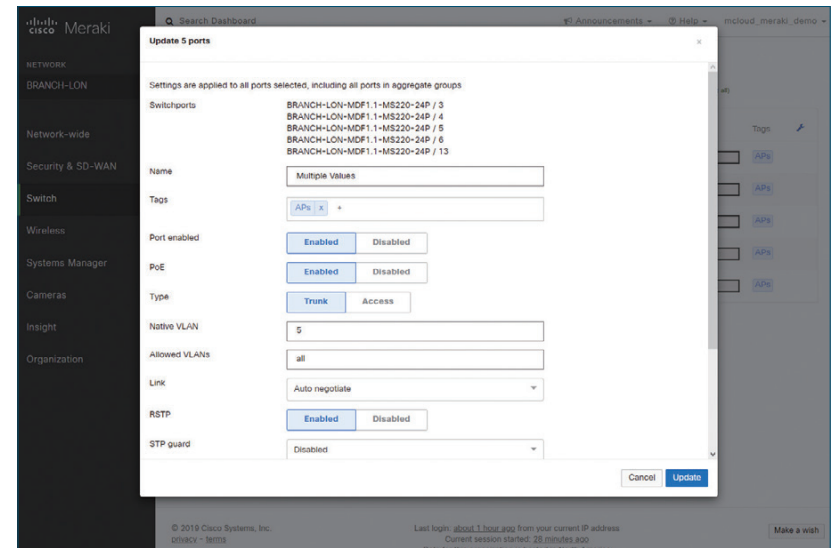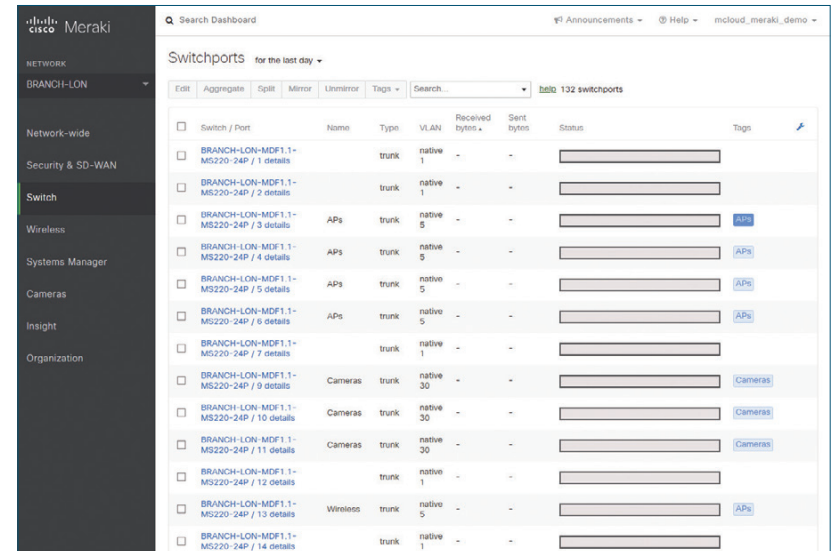
Cisco 3504 Wireless Controller

Compact, Highly Scalable, Service-Rich, Resilient, and Flexible Platform
Enables Next-Generation Wireless Networks for Small to Medium-sized Enterprises
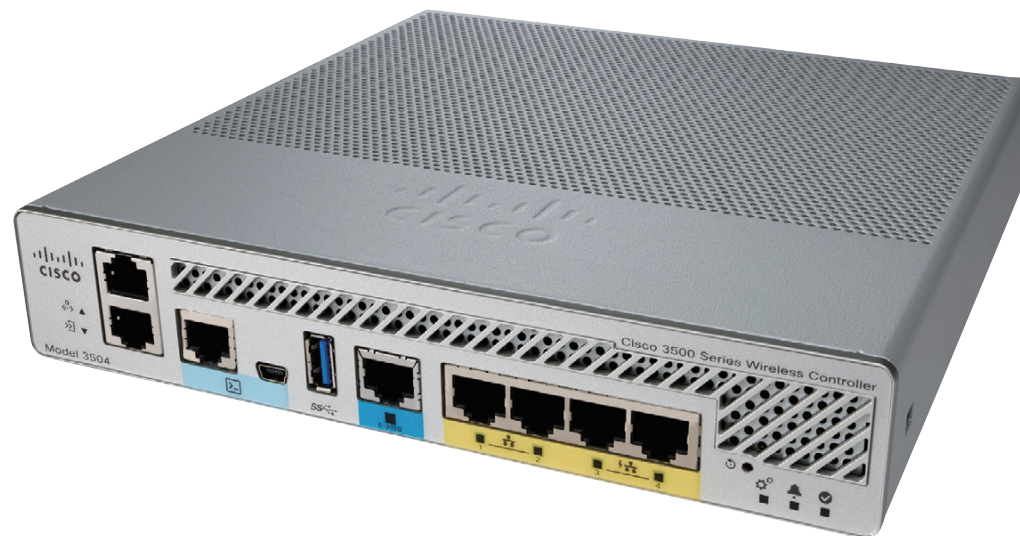
AIR-CT3504-K9

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			

Connect
Wireless

Featured Products   **Portfolio**

Management Platform	Access Points		Switches	Controllers	Cloud
	Single Point Setup	Mobility Express			
Components	Wireless Access Points (WAP)	Aironet Access Points	Catalyst Switches / Aironet Access Points	Wireless Controllers / Aironet Access Points	Meraki MR Cloud Managed Access Points
Highlights	● Supports 16 APs (500 Series WAP) ● No license requirement	● Supports 100 APs, 2,000 clients (Aironet 2800/3800) ● No license requirement	● Supports 100 APs, 2,000 clients (Catalyst 3850) ● Converged wired and wireless access for operational simplicity and scale	● Supports 150 APs, 3,000 clients (WC3504) ● Supports various deployment modes: central, distributed, and mesh	● 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	● Cisco 100 Series Wireless Access Points (WAP)*¹ ● Cisco 300 Series Wireless Access Points (WAP) ● Cisco 500 Series Wireless Access Points (WAP)	● Cisco Aironet 1800 Series*² ● Cisco Aironet 2800 Series ● Cisco Aironet 3800 Series	● Cisco Catalyst 3650 Series ● Cisco Catalyst 3850 Series	● Cisco 3504 Wireless Controller ● Cisco Aironet 1800 Series ● Cisco Aironet 2800 Series ● Cisco Aironet 3800 Series	● Cisco Meraki MR20 ● Cisco Meraki MR30H ● Cisco Meraki MR33 ● Cisco Meraki MR42 ● Cisco Meraki MR42E

*1 Cisco WAP125 does not support Single Point Setup.
*2 Cisco Aironet 1815t does not support Mobility Express.

Connect - Wireless
Cisco Wireless Access Points (WAP)

WEB

| **Overview** | **Positioning Map** | **Platform Spec** |

▎ 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)

Connect – Wireless
Cisco Wireless Access Points (WAP)

WEB

Overview | **Positioning Map** | Platform Spec

Performance (High ↑)		
2,100 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	4x4:4 DL MU-MIMO + 3x3:3 SU-MIMO	WAP581
1,300 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	3x3:3 SU-MIMO + 3x3:3 SU-MIMO	WAP571 WAP571E
1,300 Mbps (5 GHz) + 300 Mbps (2.4 GHz)	3x3:3 SU-MIMO + 2x2:2 SU-MIMO	WAP371
867 Mbps (5 GHz) + 300 Mbps (2.4 GHz)	2x2:2 SU-MIMO + 2x2:2 SU-MIMO	WAP150 WAP361
867 Mbps (5 GHz) or 300 Mbps (2.4 GHz)	2x2:2 SU-MIMO or 2x2:2 SU-MIMO	WAP125
300 Mbps (5 GHz) or 300 Mbps (2.4 GHz)	2x2:2 SU-MIMO or 2x2:2 SU-MIMO	WAP121

Wireless Client Density → High

Connect - Wireless
Cisco Wireless Access Points (WAP)

WEB

| Overview | Positioning Map | **Platform Spec** |

▌ 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	4	1	–	–	●	●	External
WAP125-x-K9-xx	CON-SMBS-WAP12K9x	●	●	–	●	●	–	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	
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.

Connect - Wireless
Cisco Aironet Access Points

WEB

| **Overview** | **Positioning Map** | **Platform Spec** | **Accessories** |

▍ 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)

Connect – Wireless
Cisco Aironet Access Points

WEB

| Overview | **Positioning Map** | Platform Spec | Accessories |

High ←	2,600 Mbps (5 GHz) + 2,600 Mbps (5 GHz) or 2,600 Mbps (5 GHz) + 450 Mbps (2.4 GHz)	4x4:3 DL MU-MIMO + 4x4:3 DL MU-MIMO or 4x4:3 DL MU-MIMO + 4x4:3 SU-MIMO
Performance	1,733 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	4x4:3 DL MU-MIMO + 4x4:4 SU-MIMO
	867 Mbps (5 GHz) + 300 Mbps (2.4 GHz)	3x3:2 DL MU-MIMO + 3x3:2 SU-MIMO
	867 Mbps (5 GHz) + 144 Mbps (2.4 GHz)	2x2:2 DL MU-MIMO + 2x2:2 SU-MIMO

Aironet 4800 Series

Aironet 2800/3800 Series[*1]

Aironet 1850 Series

Aironet 1830 Series

Aironet 1815 Series

Wireless Client Density   → High

*1 Cisco Start portfolio covers Aironet 2800/3800 with Mobility Express.

Connect - Wireless
Cisco Aironet Access Points

| Overview | Positioning Map | **Platform Spec** | Accessories |

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*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.

Connect – Wireless
Cisco Aironet Access Points

Overview	Positioning Map	Platform Spec	Accessories

■ 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.

TIP 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.

Connect - Wireless
Cisco Aironet Access Points

WEB

| Overview | Positioning Map | Platform Spec | **Accessories** |

▌ 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	–	–	–	–	–	–	–	–	–	–	–	●

Connect - Wireless

Cisco Wireless Controllers

Overview | **Positioning Map** | **Platform Spec** | **Licenses & Accesorries**

▌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

Connect – Wireless
Cisco Wireless Controllers

WEB

Overview **Positioning Map** **Platform Spec** **Licenses & Accesorries**

Appliance			
	3504 Wireless Controller	5520 Wireless Controller	8540 Wireless Controller

Virtual Machine — Virtual Wireless Controller

Switch — Catalyst 3650 Series | Catalyst 3850 Series

Access Point Mobility Express — Aironet 1815/1830/1850 Series | Aironet 2800/3800 Series

Maximum Access Points → More

Connect - Wireless

Cisco Wireless Controllers

WEB

| Overview | Positioning Map | Platform Spec | Licenses & Accesorries |

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 3504 Wireless Controller

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.

Connect - Wireless
Cisco Wireless Controllers

Overview　　**Positioning Map**　　**Platform Spec**　　**Licenses & Accesorries**

▌ Cisco 3504 Wireless Controller License*1

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

*1 LIC-CT3504-UPG is required in CCW.

▌ Cisco 3504 Wireless Controller Rack Mount Bracket

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

Connect - Wireless
Cisco Meraki MR Cloud Managed Access Points

WEB

| **Overview** | **Positioning Map** | **Platform Spec** | **Licenses & Accessories** | **Why Meraki MR?** |

▌ 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 up to 5 Gbps of traffic over a single existing cable in order to take full advantage of high speed Wi-Fi 5 and Wi-Fi 6.
- **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 Wi-Fi 5 and Wi-Fi 6**: 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.

Connect - Wireless

Cisco Meraki MR Cloud Managed Access Points

WEB

| Overview | **Positioning Map** | Platform Spec | Licenses & Accessories | Why Meraki MR? |

High ↑

4,804 Mbps (5 GHz) + 1,147 Mbps (2.4 GHz)	8x8:8 DL MU-MIMO + 8x8:8 DL MU-MIMO					MR55 (11ax)
2,402 Mbps (5 GHz) + 1,147 Mbps (2.4 GHz)	4x4:4 DL MU-MIMO + 4x4:4 DL MU-MIMO					MR45 (11ax)
1,733 Mbps (5 GHz) + 800 Mbps (2.4 GHz)	4x4:4 DL MU-MIMO + 4x4:4 SU-MIMO			MR53	MR53E	
				MR52		
1,300 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	3x3:3 DL MU-MIMO + 3x3:3 SU-MIMO		MR42	MR42E		
867 Mbps (5 GHz) + 400 Mbps (2.4 GHz)	2x2:2 DL MU-MIMO + 2x2:2 SU-MIMO		MR30H			
		MR20	MR33			

Wireless Client Density → High

Connect - Wireless

Cisco Meraki MR Cloud Managed Access Points

WEB

| Overview | Positioning Map | Platform Spec | Licenses & Accessories | Why Meraki MR? |

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	●	●	●	●	●	●	●	–	–	1	–	●	●	Internal
MR30H-HW	●	●	●	●	●	●	●	●	–	5*1	–	●*2	●	Internal
MR33-HW	●	●	●	●	●	●	●	●	●	1	–	●	●	Internal
MR42-HW	●	●	●	●	●	●	●	●	●	1	–	●*2	●	Internal
MR42E-HW	●	●	●	●	●	●	●	●	●	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.

Connect - Wireless
Cisco Meraki MR Cloud Managed Access Points

WEB

| Overview | Positioning Map | Platform Spec | Licenses & Accessories | Why Meraki MR? |

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	–	–	–	–	●

Connect - Wireless
Cisco Meraki MR Cloud Managed Access Points

WEB

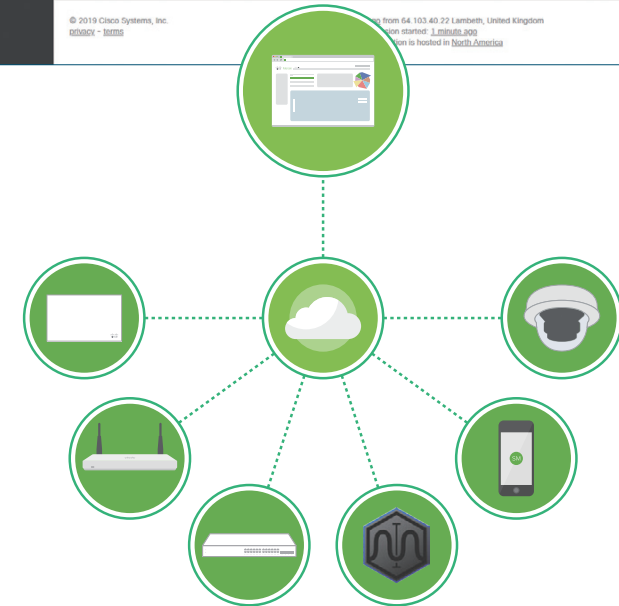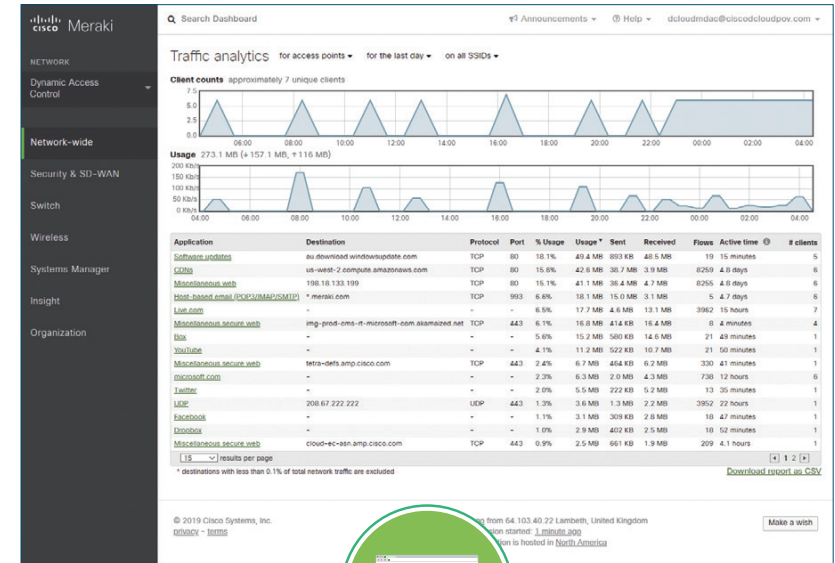| Overview | Positioning Map | Platform Spec | Licenses & Accessories | Why Meraki MR? |

Cloud Management Architecture

Cisco Meraki's architecture provides feature rich network management without on-site management appliances or Wi-Fi controllers.

Every Meraki device — including access points, switches, security appliances, and cameras— connects over the Internet to Meraki's datacenters, which run Meraki's cloud management platform.

These connections, secured via SSL, utilize a patented protocol that provides real time visibility and control, yet uses minimal bandwidth overhead (typically 1 kbps or less.)

In place of traditional command-line based network configuration, Meraki provides a rich web based dashboard, providing visibility and control over up to tens of thousands of Meraki devices, anywhere in the world. Tools, designed to scale to large and distributed networks, make policy changes, firmware updates, deploying new branches, etc. simple and expedient, regardless of size or location. Meraki's real time protocols combine the immediacy of on-premise management applications with the simplicity and centralized control of a cloud application.

Connect - Wireless

Cisco Meraki MR Cloud Managed Access Points

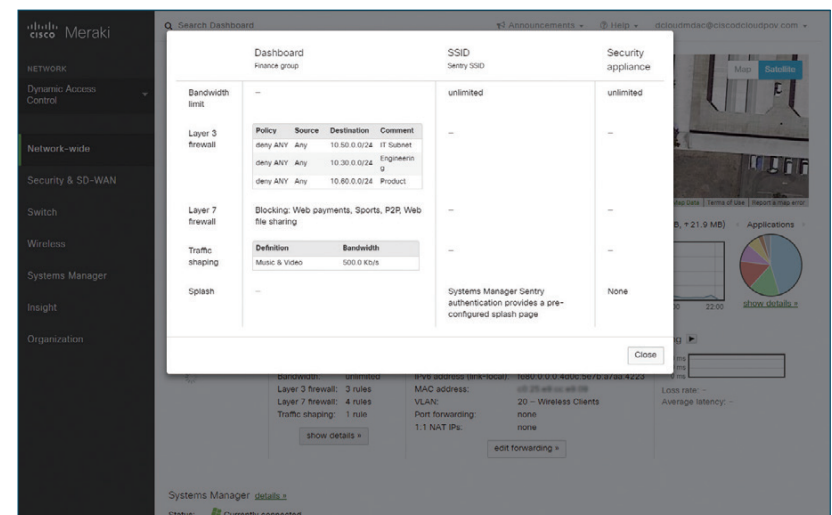| Overview | Positioning Map | Platform Spec | Licenses & Accessories | Why Meraki MR? |

Unmatched Visibility

The Cisco Meraki MR provides deep network insight enabling smarter network management via the Cisco Meraki dashboard. It gives visibility into the network users, their devices, and their applications. Armed with rich analytics, administrators can quickly create access control and application usage policies, optimizing both the end-user experience and network security.
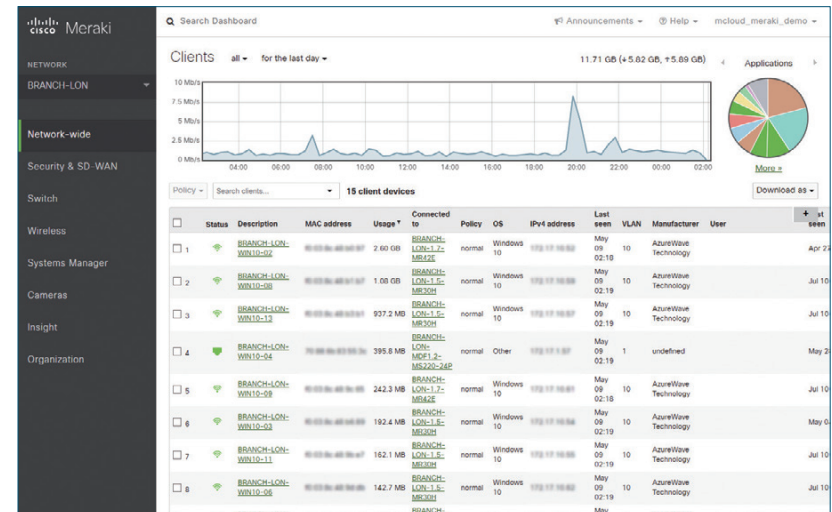
Application-Aware Traffic Shaping

Cisco Meraki MR includes an integrated Layer 7 packet inspection, classification, and control engine, enabling the configuration of QoS policies based on traffic type, helping to prioritize mission critical applications while setting limits on recreational traffic like peer-topeer and video streaming. Policies can be implemented per network, per SSID, per user group, or per individual user for maximum flexibility and control.

Connect - Wireless

Cisco Meraki MR Cloud Managed Access Points

| Overview	Positioning Map	Platform Spec	Licenses & Accessories	Why Meraki MR?

Dedicated Security Radio

In addition to the high-power 2.4 GHz and 5 GHz client-service radios, most of the Cisco Meraki MR also includes a dedicated security radio that:

- Continuously scans and protects against security threats
- Senses the RF environment and adapts to interference
- Automatically configures RF settings to maximize performance

The RF data collected by the dedicated third radio is continuously fed back to the Meraki cloud. This data is then used to automatically tune the channel selection, transmit power, and client connection settings for optimal performance under even the most challenging RF conditions. There is no need for the dedicated hardware and RF expertise typically required to tune a wireless network.
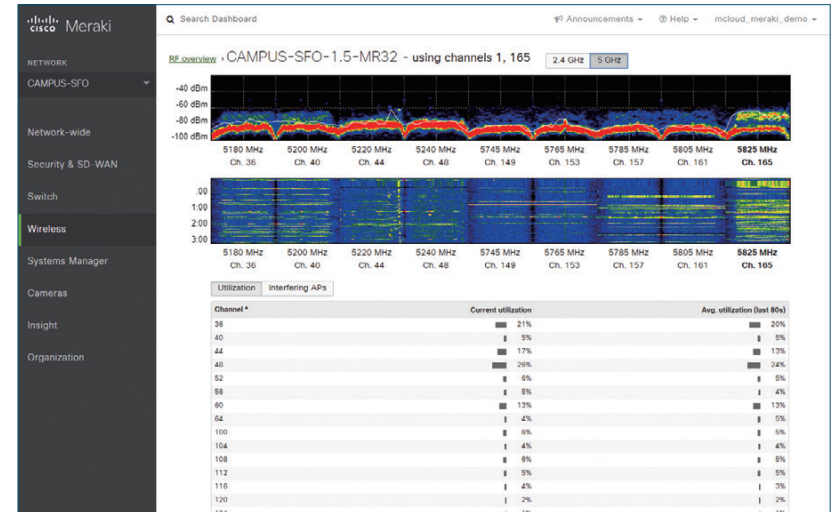
Bluetooth Low Energy Beacon and Scanning Radio

An integrated fourth Bluetooth radio provides seamless deployment of BLE Beacon functionality and effortless visibility of Bluetooth devices. Cisco Meraki MR enables the next generation of location-aware applications while future proofing deployments, ensuring it's ready for any new customer engagement strategies.
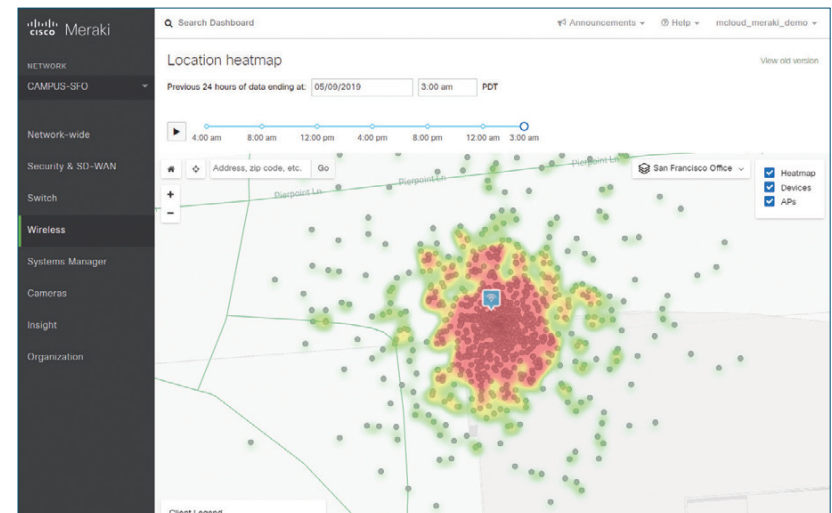
Connect

Routers

Featured Products   Portfolio

NEW   ## Cisco ISR 900 Series

Create a Highly Secure, Enterprise-class Network
with A Router Fit for Small and Medium-sized Businesses

C921-4PLTEAS/C921-4PLTEAU NEW

150 Mbps Max Crypto Throughput	IOS IP Base	x86 2.2 GHz CPU	1 GB DRAM	2 GB Flash	1-port GE-WAN	150 Mbps Internal LTE Modem	4-port GE Managed Switch	1-port USB 2.0 Type A	External Power Adapter	Optional 1 RU Rack Mount	Optional Under Desk Mount

C931-4P

250 Mbps Max Crypto Throughput	IOS IP Base	x86 2.2 GHz CPU	1 GB DRAM	2 GB Flash	2-port GE-WAN	4-port GE Managed Switch	1-port USB 2.0 Type A	Internal Power Supply	Optional 1 RU Rack Mount	Optional Under Desk Mount

Connect

Routers

Featured Products　　　Portfolio

Cisco ISR 1100 Series

Provides Internet Access, Comprehensive Security, and Wireless Services in A Single, High-Performance Device

C1101-4PLTEP

150 Mbps Max Crypto Throughput	IOS XE IP Base	Multicore CPU	4 GB DRAM	4 GB Flash
1-port GE-WAN	LTE Advanced Pluggable	4-port GE Managed Switch	1-port USB 2.0 Type A	

C1111X-8P-DNA-PM　NEW

250 Mbps Max Crypto Throughput	SD-WAN IOS XE	Multicore CPU	8 GB DRAM	8 GB Flash	
1-port GE-WAN	1-port GE/SFP-WAN	8-Port GE Managed Switch	Optional PoE/PoE+	1-port USB 2.0 Type A	Optional 1 RU Rack Mount
Cisco DNA E or A or P Subscription	Application Aware Firewall	Snort IPS	URL Filtering	Umbrella Integration	Network Plug-n-Play License

Connect
Routers

Featured Products   Portfolio

Cisco RV160/260 Series

With Powerful Performance and Features at an Attractive Price
Keep Your Business and Your Employees Productive and Effective

RV160W-x-K9-xx

600 Mbps Firewall Throughput	50 Mbps IPsec VPN Throughput	10 IPsec VPN Tunnels	1-port GE/SFP-WAN	4-port GE-LAN	11ac Wave 2	11n	Dual Radio	1-port USB	External Power Adapter	Desktop

RV260P-K9-xx

800+ Mbps Firewall Throughput	75+ Mbps IPsec VPN Throughput	20 IPsec VPN Tunnels	1-Year Web Filtering	1-port GE/SFP-WAN	4-port GE-LAN	4-port GE PoE LAN	1-port USB	External Power Adapter	Desktop	1 RU Rack Mount

Connect

Routers

Featured Products   **Portfolio**

High ↑

Performance, Function, Flexibility, Scalability

RV Series
- Custom Linux
- Basic Routing
- Basic Security
- Max 650 Mbps Crypto Throughput

ISR 800 Series
- Classic IOS
- Advanced Routing
- Advanced Security
- Max 100 Mbps Crypto Throughput

ISR 900 Series
- Classic IOS
- Advanced Routing
- Advanced Security
- Max 250 Mbps Crypto Throughput

ISR 1100 Series
- IOS XE
- SD-WAN
- SD-WAN Security
- Max 350 Mbps Crypto Throughput

ISR 4200 Series
- IOS XE
- SD-WAN
- SD-WAN Security
- Max 75 Mbps Crypto Throughput

ISR 4300 Series
- IOS XE
- SD-WAN
- SD-WAN Security
- Max 500 Mbps Crypto Throughput

ISR 4400 Series
- IOS XE
- SD-WAN
- SD-WAN Security
- Max 7 Gbps Crypto Throughput

Fixed Platforms   Modular Platforms

Connect - Routers
Cisco RV Series

Overview	Positioning Map	Platform Spec	RV Security

▌ 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

Connect – Routers
Cisco RV Series

WEB

Overview	**Positioning Map**	Platform Spec	RV Security

GE WAN

11ac RV134W   RV130W   11ac RV160W   11ac RV260W   11ac RV340W

RV260P   RV345P

RV130   RV160   RV260   RV340   RV345

RV042G   RV320   RV325

FE WAN

RV132W   RV215W

RV042

Performance, Function, Flexibility, Scalability   → High

Cisco RV Series

Cisco Start Catalog
May – July, 2019

Overview | Positioning Map | **Platform Spec** | RV Security

Product SKU	Service (CSE) SKU	WAN Ports					LAN Ports		PoE			IPsec Through-put	IPsec VPN Tunnels		Web Filter-ing	WLAN				AC Power
		FE	GE	GE/SFP	xDSL	LTE	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-xxxxxxxx	–	1	–	–	1*1	–	4	–	–	–	50 Mbps	10	10	–	–	–	–	–	External
RV130-WB-K9-xx	CON-SMBS-xxxxxxxx	–	1	–	–	1*1	–	4	–	–	–	50 Mbps	10	10	●	–	–	–	–	External
RV130W-x-K9-xx	CON-SMBS-V10W9xxx	–	1	–	–	1*1	–	4	–	–	–	50 Mbps	10	10	–	●	–	●	–	External
RV130W-x-WB-K9-xx	–	–	1	–	–	1*1	–	4	–	–	–	50 Mbps	10	10	●	●	–	●	–	External
RV132W-x-K9-xx	CON-SMBS-RV13K9xx	1	–	–	1	1*1	3	–	–	–	–	3 Mbps	5	5	–	●	–	●	–	External
RV134W-x-K9-xx	CON-SMBS-RV134Wxx	–	1	–	1	1*1	–	4	–	–	–	20 Mbps	5	5	–	●	●	●	●	External
RV160-K9-xx	CON-SMBS-RV16xxxx	–	–	1	–	–	–	4	–	–	–	50 Mbps	10	10	–	–	–	–	–	External
RV160W-x-K9-xx	CON-SMBS-RV16xxxx	–	–	1	–	–	–	4	–	–	–	50 Mbps	10	10	–	●	●	●	●	External
RV215W-x-K9-xx	CON-SMBS-RV25W9xx	1	–	–	–	1*1	4	–	–	–	–	5 Mbps	1	5	–	●	–	●	–	External
RV260-K9-xx	CON-SMBS-RV260xxx	–	–	1	–	1*1	–	8	–	–	–	75 Mbps	20	20	●*2	–	–	–	–	External
RV260P-K9-xx	CON-SMBS-RV260xxx	–	–	1	–	1*1	–	8	4	60 W	af	75 Mbps	20	20	●*2	–	–	–	–	External
RV260W-x-K9-xx	CON-SMBS-RVxxxxxx	–	–	1	–	1*1	–	8	–	–	–	75 Mbps	20	20	●*2	●	●	●	●	External
RV320-K9-xx	CON-SMBS-RV3xxxxx	–	2	–	–	1*1	–	4	–	–	–	100 Mbps	25	25	–	–	–	–	–	External
RV325-K9-xx	CON-SMBS-RV35K9xx	–	2	–	–	1*1	–	14	–	–	–	100 Mbps	25	25	–	–	–	–	–	External
RV340-K9-xx	CON-SMBS-RV340Kxx	–	2	–	–	1*1	–	4	–	–	–	650 Mbps	50	50	●*3	–	–	–	–	External
RV340W-x-K9-xx	–	–	2	–	–	1*1	–	4	–	–	–	650 Mbps	50	50	●*3	●	●	●	●	External
RV345-K9-xx	CON-SMBS-V345K9xx	–	2	–	–	1*1	–	16	–	–	–	650 Mbps	50	50	●*3	–	–	–	–	External
RV345P-K9-xx	CON-SMBS-RV345Pxx	–	2	–	–	1*1	–	16	8	120 W	af/at	650 Mbps	50	50	●*3	–	–	–	–	External

*1 3G/4G modem is required. *2 Available for one year. *3 RV Security License (LS-RV34X-SEC-1YR=) is required.

Connect - Routers

Cisco RV Series

WEB

Overview	Positioning Map	Platform Spec	**RV Security**

With an optional **Cisco RV Security License**, the **Cisco RV340 Series** will provide the following advanced security features.

- **Application Visibility and Control (AVC)**
- **Client Identification and Control**

  Allows administrators to create Internet access policies for endpoints (clients) and Internet applications to help ensure performance and security

- **Dynamic Web Filtering**

  Enables business efficiency and security while connecting to the Internet

- **Antivirus** `NEW`

  Protects the network users from infected and malware content received in emails or data

- **Intrusion Prevention System (IPS)** `NEW`

  Scans traffic to look for known attack patterns to block

Cisco RV Security License for Cisco RV340 Series

Product SKU	Description
LS-RV34X-SEC-1YR=	RV Security License - 1 year

Application Visibility
and Control

Client Identification
and Control

Dynamic
Web Filtering

Antivirus

Intrusion
Prevention System

AnyConnect

Umbrella
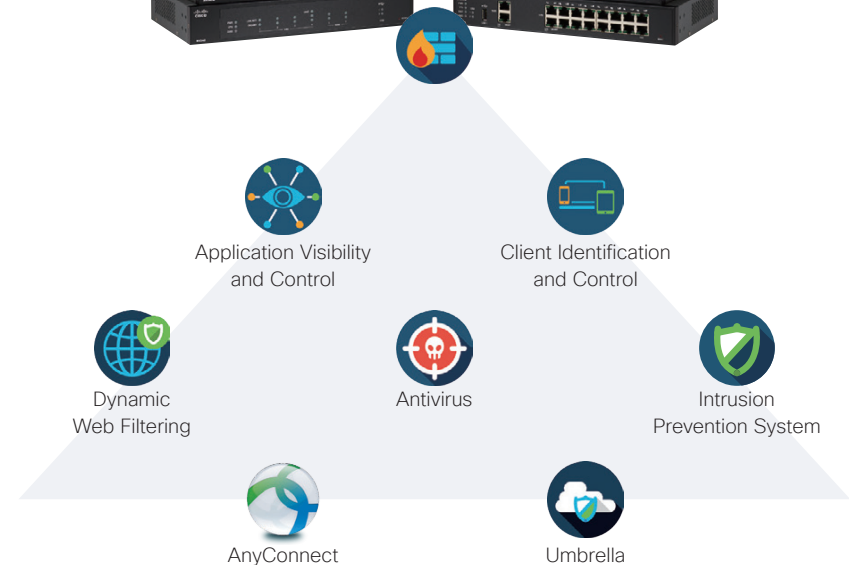
Cisco AnyConnect Secure Mobility Client-Compatible SSL VPN

Cisco RV340 Series support SSL VPN connections from a mobile device using the **Cisco AnyConnect Secure Mobility Client**.
Starting with the free firmware version 1.0.3.x no extra server license will be required and 50 tunnels on the server (Cisco RV340 Series) are enabled by default. With firmware release 1.0.02.x and earlier to use more than 2 tunnels at the same time you could increase the number of tunnels using a software license. Customers who have an active subscription of 25 tunnels will see no service interruption and will have 50 tunnels available by default after the firmware upgrade to firmware 1.0.03.x and higher.

Cisco Umbrella integration

The Cisco Umbrella is a cloud security platform that provides the first line of defense against threats on the internet. It acts as a gateway between the internet and your systems and data to block malware, botnets and phishing over any port, protocol or app.
Cisco RV340 Series support the Cisco Umbrella integration in the embedded device management tool. Using an Cisco Umbrella account, the integration will transparently intercept DNS queries and redirect them to Cisco Umbrella. Cisco RV340 Series will appear in the Cisco Umbrella dashboard as a network device for applying policy and viewing reports.

Connect - Routers
Cisco ISR 800 Series

WEB

| **Overview** | **Platform Spec** | **Licenses & Accessories** |

▍ 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)

Overview　　**Platform Spec**　　**Licenses & Accessories**

Product SKU	Service (CSE) SKU	Cisco IOS	WAN Ports						LAN Ports		WLAN		AppX	Security		Rack mount
			FE	GE	GE/SFP	ISDN	xDSL	LTE	FE	GE	11n	11ac		FW	VPN	
C819H-K9	CON-SMBS-C819HK9	Advanced IP Services	–	1	–	–	–	–	4	–	–	–	●	●	●	–*3
C819G-LTE-LA-K9	CON-SMBS-C819TEK9	Advanced IP Services	–	1	–	–	–	1	4	–	–	–	●	●	●	–*4
C819GW-LTE-LA-xK9*1	CON-SMBS-C8QT9GWL	Advanced IP Services	–	1	–	–	–	1	4	–	●	–	●	●	●	–*4
C841M-4X/K9	CON-SMBS-C841M4XK	Advanced IP Services	–	2	–	–	–	–	–	4	–	–	–	●	●	–*5
C841M-8X/K9	CON-SMBS-C841M8XK	Advanced IP Services	–	2	–	–	–	–	–	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	–	●	–	–	●	●	–
C891F-K9	CON-SMBS-C891F8BB	Advanced IP Services	1	–	1	1	–	–	–	8	–	–	●*2	●	●	–*6
C891-24X/K9	CON-SMBS-C89124K9	Advanced IP Services	–	–	2	–	–	–	–	24	–	–	–	●	●	–*7
C892FSP-K9	CON-SMBS-C892FSPK	Advanced IP Services	–	1	1	–	–	–	–	8	–	–	●*2	●	●	–*6
C897VA-K9	CON-SMBS-C897VAK9	Advanced IP Services	–	–	1	1	1	–	–	8	–	–	●*2	●	●	–*6
C897VAG-LTE-LA-K9	CON-SMBS-CLTEAGK9	Advanced IP Services	–	–	1	–	1	1	–	8	–	–	●*2	●	●	–*6
C898EAG-LTE-LA-K9	CON-SMBS-C898EAGA	Advanced IP Services	–	–	1	–	1	1	–	8	–	–	●*2	●	●	–*6
C899G-LTE-LA-K9	CON-SMBS-C89LKEGL	Advanced IP Services	–	1	1	–	–	1	–	8	–	–	●*2	●	●	–*6

*1 The "x" corresponds to the supported domain. *2 Feature License is required.
*3 Optional Floor/Wall Mounting Kit (ACS-810-FWM) and Flat Floor/Wall Mounting Kit (ACS-810-RFWM) are available.
*4 Optional Floor/Wall Mounting Kit (ACS-810-FWM), Flat Floor/Wall Mounting Kit (ACS-810-RFWM), and Din Rail Mounting Kit (ACS-810-DM) are available.
*5 ACS-800M-RM-19 is required. *6 ACS-890-RM-19 is required. *7 ACS-2901-RM-19 is required.

Connect - Routers
Cisco ISR 800 Series

| Overview | Platform Spec | Licenses & Accessories |

Cisco IOS Advanced IP Services Licenses

Product SKU	Description
SL-880-AIS	Cisco IOS Advanced IP Services License for Cisco 881W
L-880-AIS=	Cisco IOS Advanced IP Services License for Cisco 881W (eDelivery)

Cisco IOS Feature Licenses

Product SKU	Description
L-FL-C800-APP=	Cisco IOS APP License for Cisco ISR 891F/892FSP/897VA/899G

Cisco WAN Interface Modules for Cisco ISR 841M

Product SKU	Description
WIM-1T	Serial WAN Module (1-port)
WIM-LTE-AS	4G LTE (Category 4) WAN Module (Single SIM, Bands Supported: B1, B3, B5, B8, B40, B41)

PoE-capable Power Supply Module

Product SKU	Description
800-IL-PM-4	4-port PoE-capable Power Supply Module for Cisco ISR 891F/897VA/897VAG/898EAG/899G

Connect - Routers

Cisco ISR 900 Series NEW

WEB

Overview   **Platform Spec**   **Licenses**   **Transition Guide**

▌ Enterprise-class Routing for Small and Home Offices

The **Cisco ISR 900 Series** combines WAN and comprehensive security in a compact, fanless platform. The routers are designed to provide enterprise-class security and connectivity for small to medium-sized businesses.

The ISRs come with a 4-port managed switch, providing LAN ports to connect multiple devices and up to **250 Mbps** of VPN throughput for high performance. These small yet powerful fixed configuration routers provide secure broadband, Metro Ethernet, DSL, and wireless LTE WAN connectivity. The ISRs deliver integrated security and threat defense, protecting networks from both known and new Internet vulnerabilities and attacks. The ISRs offer easy management and provisioning capabilities through Cisco Configuration Professional Express, Cisco DNA Center, and Cisco IOS Software, with full visibility into and control of network configurations and applications.

▌ Highlights

● Cisco IOS Universal Image (IP Base/SEC/APP)

● High-performance Intel x86 2.2 GHz CPU

● Dual WAN ports for load balancing and/or business continuity

● 4G LTE (Category 4) wireless WAN NEW

● Built-in managed switch (all models)

● Noiseless, flexible deployment in a fanless design

● Easy to set up and use with wizard-based configuration (Cisco Configuration Professional Express)

Connect - Routers
Cisco ISR 900 Series NEW

WEB

| Overview | Platform Spec | Licenses | Transition Guide |

Cisco ISR 900 Series

Product SKU	Service (CSE) SKU	Cisco IOS	Crypto Throughput*1	WAN Ports				LAN Ports	WLAN		AppX	Security		DRAM	Power Supply	Rack Mount
				GE	SFP	xDSL	4G LTE	GE	11n	11ac		FW	VPN			
C921-4P	–	IP Base*2	150 Mbps	2	–	–	–	4	–	–	–*6	–*7	–*7	1 GB	Internal	–*8
C921-4PLTEAS NEW	–	IP Base*2	150 Mbps	2	–	–	1	4	–	–	–*6	–*7	–*7	1 GB	Internal	–*8
C921-4PLTEAU NEW	–	IP Base*2	150 Mbps	2	–	–	1	4	–	–	–*6	–*7	–*7	1 GB	Internal	–*8
C926-4P	–	IP Base*2	150 Mbps	1	–	1*3	–	4	–	–	–*6	–*7	–*7	1 GB	External	–*9
C927-4P	–	IP Base*2	150 Mbps	1	–	1*4	–	4	–	–	–*6	–*7	–*7	1 GB	External	–*9
C927-4PLTEAU NEW	–	IP Base*2	150 Mbps	1	–	1*4	1	4	–	–	–*6	–*7	–*7	1 GB	External	–*9
C927-4PM	–	IP Base*2	150 Mbps	1	–	1*5	–	4	–	–	–*6	–*7	–*7	1 GB	External	–*9
C931-4P	–	IP Base*2	250 Mbps	2	–	–	–	4	–	–	–*6	–*7	–*7	1 GB	Internal	–*8

*1 Cisco IOS SEC License are required. *2 Cisco IOS SEC License and Cisco IOS APP License can be added.
*3 VDSL/ADSL2+ (Annex B/J). *4 VDSL/ADSL2+ (Annex A). *5 VDSL/ADSL2+ (Annex M).
*6 Cisco IOS APP License is required. *7 Cisco IOS SEC License is required.
*8 ACS-900-RM-19 is required. Optional Under-the-Desk Mounting Kit (ACS-900-DM) is available.
*9 Optional Under-the-Desk Mounting Kit (ACS-900-DM) is available.

C921-4P, C931-4P

C926-4P, C927-4P, C927-4PM

Cisco ISR 900 Series NEW

Overview	Platform Spec	**Licenses**	**Transition Guide**

▌Cisco IOS Technology Package Licenses

Product SKU	Description
SL-900-SEC	Cisco IOS SEC License for Cisco ISR 900
SL-900-APP	Cisco IOS APP License for Cisco ISR 900

TIP Cisco IOS Software Licensing and Packaging

A single Cisco IOS universal image encompassing all functions is delivered with Cisco ISR 900 Series. Advanced features can be enabled simply by activating a software license on the Universal image. The following licenses are available:

```
┌──────────┐   ┌──────────┐
│   APP    │   │   SEC    │
└──────────┘   └──────────┘
┌─────────────────────────┐
│         IP Base         │
└─────────────────────────┘
```

● IP Base

Available as the default: Routing protocols, Access Control Lists (ACL), Network Address Translation (NAT), Quality of Service (QoS), Bidirectional Forwarding Detection (BFD), Virtual Routing and Forwarding (VRF) Lite, IP SLA Responder

● Security (SEC)

Includes features for securing network infrastructure: Zone-based firewall, IPsec VPN, Dynamic Multipoint VPN (DMVPN), FlexVPN, Group Encrypted Transport (GET) VPN, Secure Sockets Layer (SSL) VPN

● Application Experience (APP)

Includes data and application performance features: Layer 2 Tunneling Protocol (L2TP) v3, Multiprotocol Label Switching (MPLS), Performance Routing (PfR) v3, Next-Generation Network-Based Application Recognition (NBAR2), Application Visibility and Control (AVC), IP SLA Initiator, LISP, Virtual Private LAN Services (VPLS), Ethernet over MPLS

Connect - Routers
Cisco ISR 900 Series NEW

WEB

| Overview | Platform Spec | Licenses | Transition Guide |

Transition Map

EoS Model	Existing Model	New Model	Description
CISCO881-K9 CISCO881-SEC-K9 CISCO881C-K9 CISCO881GC-K9	C881-K9	C921-4P	2 x GE-WAN, 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, Internal power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)
		C931-4P	2 x GE-WAN, 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, Internal power supply, Cisco IOS IP Base, Max 250 Mbps crypto throughput (Cisco IOS SEC License is required)
CISCO886-K9 CISCO886-SEC-K9 CISCO886VA-K9 CISCO886VA-SEC-K9	C886VA-K9 C886VAJ-K9	C926-4P	1 x GE-WAN, 1 x VDSL/ADSL2+ (Annex B/J), 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, External power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)
CISCO887-K9 CISCO887-SEC-K9 CISCO887V-K9 CISCO887V-SEC-K9 CISCO887VA-K9 CISCO887VA-SEC-K9	C887VA-K9	C927-4P	1 x GE-WAN, 1 x VDSL/ADSL2+ (Annex A), 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, External power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)
CISCO887M-K9 CISCO887VA-M-K9	C887VAM-K9	C927-4PM	1 x GE-WAN, 1 x VDSL/ADSL2+ (Annex M), 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, External power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)
C881G+7-K9 C881G-4G-GA-K9	–	C921-4PLTEAS C921-4PLTEAU	2 x GE-WAN, 4G LTE (Category 4) wireless WAN, 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, Internal power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)
C887VAG+7-K9 C887VAG-4G-GA-K9	–	C927-4PLTEAU	1 x GE-WAN, 1 x VDSL/ADSL2+ (Annex A), 4G LTE (Category 4) wireless WAN, 4 x GE-LAN managed switch, 1 GB DRAM and 2 GB Flash, External power supply, Cisco IOS IP Base, Max 150 Mbps crypto throughput (Cisco IOS SEC License is required)

Connect - Routers
Cisco ISR 1100 Series

WEB

| **Overview** | **Platform Spec** | **Licenses & Accessories** | **Bundles for SD-WAN** |

▌ Fixed, High-Performance Routers

The **Cisco ISR 1100 Series** routers are best suited for small and midsize businesses, enterprise branches, and as customer premises equipment in managed services environments. The routers come with 4 or 8 LAN ports in various model options. There are multiple combinations to choose from, including LAN, WLAN, WAN, DSL, LTE, and pluggable, depending on your branch needs. They 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/APP)
- High-performance multicore processors for high-speed WAN connections and multiple services
- Dual WAN ports for load balancing and/or business continuity
- 4G LTE (Category 6) 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

Connect – Routers
Cisco ISR 1100 Series

WEB

Overview	**Platform Spec**	Licenses & Accessories	Bundles for SD-WAN

Product SKU	Service (CSE) SKU	Cisco IOS	Crypto Throughput		WAN Ports				LAN Ports	WLAN	AppX	Security		DRAM	Rack Mount
			Default	Upgradable*1	GE	GE/SFP	xDSL	LTE	GE	11ac		FW	VPN		
C1101-4P	–	IP Base*3	50 Mbps	250 Mbps	1	–	–	–	4	–	–*9	–*10	–*10	4 GB	–
C1101-4PLTEP	–	IP Base*3	50 Mbps	250 Mbps	1	–	–	–*7	4	–	–*9	–*10	–*10	4 GB	–
C1101-4PLTEPWx*2	–	IP Base*3	50 Mbps	250 Mbps	1	–	–	–*7	4	●	–*9	–*10	–*10	4 GB	–
C1109-4PLTE2P NEW	–	IP Base*3	50 Mbps	200 Mbps	1	–	–	–*8	4	–	–*9	–*10	–*10	4 GB	–
C1109-4PLTE2PWx*2 NEW	–	IP Base*3	50 Mbps	200 Mbps	1	–	–	–*8	4	●	–*9	–*10	–*10	4 GB	–
C1111-4P	CON-SMBS-C11114P	IP Base*3	50 Mbps	250 Mbps	1	1	–	–	4	–	–*9	–*10	–*10	4 GB	–*11
C1111-8P	CON-SMBS-C11118P	IP Base*3	50 Mbps	350 Mbps	1	1	–	–	8	–	–*9	–*10	–*10	4 GB	–*11
C1111X-8P	CON-SMBS-C11118P	IP Base*3	50 Mbps	350 Mbps	1	1	–	–	8	–	–*9	–*10	–*10	8 GB	–*11
C1111-4PWx*2	CON-SMBS-C111xW4P*2	IP Base*3	50 Mbps	250 Mbps	1	1	–	–	4	●	–*9	–*10	–*10	4 GB	–*11
C1111-8PWx*2	CON-SMBS-C111xW8P*2	IP Base*3	50 Mbps	350 Mbps	1	1	–	–	8	●	–*9	–*10	–*10	4 GB	–*11
C1111-4PLTELA	CON-SMBS-C1114PAL	IP Base*3	50 Mbps	250 Mbps	1	1	–	●	4	–	–*9	–*10	–*10	4 GB	–*11
C1111-4PLTEEA NEW	CON-SMBS-C11114PA	IP Base*3	50 Mbps	250 Mbps	1	1	–	●	4	–	–*9	–*10	–*10	4 GB	–*11
C1111-8PLTELA	CON-SMBS-C1118PAL	IP Base*3	50 Mbps	350 Mbps	1	1	–	●	8	–	–*9	–*10	–*10	4 GB	–*11
C1111-8PLTELAWx*2	CON-SMBS-C11118PW	IP Base*3	50 Mbps	350 Mbps	1	1	–	●	8	●	–*9	–*10	–*10	4 GB	–*11
C1113-8P NEW	–	IP Base*3	50 Mbps	250 Mbps	–	1	1*4	–	4	–	–*9	–*10	–*10	4 GB	–*11
C1117-4P	CON-SMBS-C11174P1	IP Base*3	50 Mbps	250 Mbps	–	1	1*5	–	4	–	–*9	–*10	–*10	4 GB	–*11
C1117-4PWx*2	CON-SMBS-C111xxxx	IP Base*3	50 Mbps	250 Mbps	–	1	1*6	–	4	●	–*9	–*10	–*10	4 GB	–*11
C1117-4PLTELA	CON-SMBS-C1114PLE	IP Base*3	50 Mbps	250 Mbps	–	1	1*6	●	4	–	–*9	–*10	–*10	4 GB	–*11
C1117-4PLTELAWx*2	CON-SMBS-C111Wx4P	IP Base*3	50 Mbps	250 Mbps	–	1	1*6	●	4	●	–*9	–*10	–*10	4 GB	–*11

*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 1 G.FAST (Annex A). *5 VA-DSL (Annex A). *6 ADSL2/VDSL2+ (Annex A).
*7 Cisco LTE Advanced Pluggable is required. *8 Cisco LTE Advanced Pluggable is required. Dual Pluggables are supported.
*9 Cisco IOS APP License is required. *10 Cisco IOS SEC License is required. *11 ACS-1100-RM-19 is required.

Connect - Routers

Cisco ISR 1100 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles for SD-WAN |

Cisco IOS Technology Package Licenses

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

Cisco IOS Feature Licenses

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

Cisco LTE Advanced Pluggable for Cisco ISR 1101/1109 LTE Models

Product SKU	Description
P-LTEA-LA	4G LTE (Category 6) Pluggable

Cisco Serial WAN Pluggable for for Cisco ISR 1101/1109 LTE Models

Product SKU	Description
P-1T NEW	Cisco 12:1 High Speed serial WAN Pluggable (1-port)

PoE-capable Power Supply Module for Cisco ISR 111x

Product SKU	Description
ISR-1100-POE2	2-port PoE-capable (2 PoE or 1 PoE+) 115 W Power Supply Module for Cisco 111x (4-port Model)
ISR-1100-POE4	4-port PoE-capable (4 PoE or 2 PoE+) 150 W Power Supply Module for Cisco 111x (8-port Model)

TIP **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 (VPERF)**: 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.

VPERF

HSEC

APP

SEC

IP Base

Connect - Routers
Cisco ISR 1100 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | **Bundles for SD-WAN** |

Cisco ISR 1100 Series Cisco DNA Bundles NEW

Product SKU	Description	SD-WAN Security			
		App Aware FW	IPS	URL Filtering	Umbrella Integration
C1111-4P-DNA	Cisco 1111-4P with Cisco DNA Support	●	-	-	●
C1111-8P-DNA	Cisco 1111-8P with Cisco DNA Support	●	-	-	●
C1111X-8P-DNA-PM	Cisco 1111X-8P with Cisco DNA Support	●	●	●	●
C1111-4PLTELA-DNA	Cisco 1111-4PLTELA with Cisco DNA Support	●	-	-	●
C1111-8PLTELA-DNA	Cisco 8PLTELA with Cisco DNA Support	●	-	-	●

Cisco DNA Licenses for Cisco ISR 1100 Series NEW

● **Cloud Management**: Provides simplicity of management with **Cisco vManage**; recommended for all SD-WAN deployments.

● **On-Premises Management**: Manages WAN using **Cisco DNA Center** or Cisco vManage on-premises.
Cisco DNA Center requires an additional appliance purchase.

Software Package	Bandwidth	Product SKU (Cloud Management)		Product SKU (On-Premises Management)	
		3-Years	5-Years	3-Years	5-Years
Cisco DNA Essentials	10 Mbps	DNA-C-10M-E-3Y	DNA-C-10M-E-5Y	DNA-P-10M-E-3Y	DNA-P-10M-E-5Y
	20 Mbps	DNA-C-20M-E-3Y	DNA-C-20M-E-5Y	DNA-P-20M-E-3Y	DNA-P-20M-E-5Y
	50 Mbps	DNA-C-50M-E-3Y	DNA-C-50M-E-5Y	DNA-P-50M-E-3Y	DNA-P-50M-E-5Y
	100 Mbps	DNA-C-100M-E-3Y	DNA-C-100M-E-5Y	DNA-P-100M-E-3Y	DNA-P-100M-E-5Y
Cisco DNA Advantage	10 Mbps	DNA-C-10M-A-3Y	DNA-C-10M-A-5Y	DNA-P-10M-A-3Y	DNA-P-10M-A-5Y
	20 Mbps	DNA-C-20M-A-3Y	DNA-C-20M-A-5Y	DNA-P-20M-A-3Y	DNA-P-20M-A-5Y
	50 Mbps	DNA-C-50M-A-3Y	DNA-C-50M-A-5Y	DNA-P-50M-A-3Y	DNA-P-50M-A-5Y
	100 Mbps	DNA-C-100M-A-3Y	DNA-C-100M-A-5Y	DNA-P-100M-A-3Y	DNA-P-100M-A-5Y

Connect - Routers
Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

▍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/APP**)

● 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
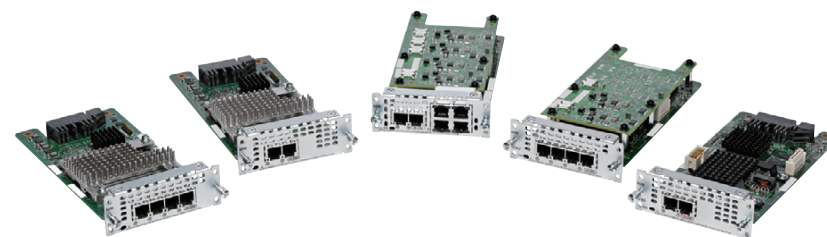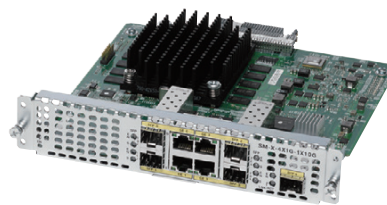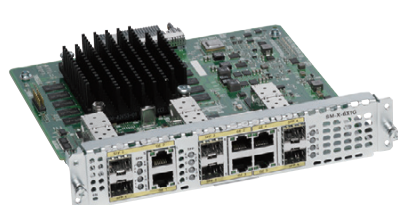
Connect – Routers
Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

Product SKU	Service (CSE) SKU	Cisco IOS	Throughput		Ports			Expansion Slots			Default Power Supply	Power Redundancy	Rack Mount
			Default	Max*1	GE	SFP	GE/SFP	NIM	SM-X	PVDM			
ISR4221/K9	CON-SMBS-ISR4221K	IP Base*2	35 Mbps	1.2 Gbps	1	–	1	2	–	–	External AC	–	1 RU
ISR4321/K9	CON-SMBS-ISR4321K	IP Base*2	50 Mbps	2 Gbps ~	1	–	1	2	–	1	External AC	–	1 RU
ISR4331/K9	–	IP Base*2	100 Mbps	2 Gbps ~	1	1	1	2	1	1	Internal AC	–	1 RU
ISR4351/K9	–	IP Base*2	200 Mbps	2 Gbps ~	–	–	3	3	2	1	Internal AC	–	2 RU
ISR4431/K9	–	IP Base*2	500 Mbps	4 Gbps ~	–	–	4	3	–	1	Internal AC	●	1 RU
ISR4451-X/K9	–	IP Base*2	1 Gbps	4 Gbps ~	–	–	4	3	2	1	Internal AC	●	2 RU

*1 Cisco IOS Booster Performance License is required.
*2 Cisco IOS SEC License, Cisco IOS UC License, and Cisco IOS APP License can be added.

Connect - Routers
Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | **Licenses & Accessories** | Bundles | Transition Guide |

▌ Cisco IOS Technology Package Licenses

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	–	–	–	–	●	●

Connect – Routers
Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

■ 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.

Connect - Routers
Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

▍ 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	●	●	●	●	●	●

Connect – Routers
Cisco ISR 4000 Series

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

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/ADSL/2/2+ (Annex A) Module	NIM	●	●	●	●	●	●
NIM-VA-B	Multi Mode VDSL2/ADSL/2/2+ (Annex B) Module	NIM	●	●	●	●	●	●
NIM-VAB-M	Multi Mode VDSL2/ADSL/2/2+ (Annex M) Module	NIM	●	●	●	●	●	●

Cisco 4G LTE Network Interface Modules

Product SKU	Description	Slot	Compatible Models					
			4221	4321	4331	4351	4431	4451
NIM-LTEA-EA	4G LTE (Category 6) Module for Europe and North America	NIM	●	●	●	●	●	●
NIM-LTEA-LA	4G LTE (Category 6) 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	–	–	●	●	–	●

Connect - Routers

Cisco ISR 4000 Series

WEB

Overview	Platform Spec	Licenses & Accessories	Bundles	Transition Guide

▌ 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-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-E180D-M3/K9	8	16 GB	128 GB	3	0/1/5/10	SM-X	–	–	–	●	–	●
UCS-E1120D-M3/K9	12	16 GB	128 GB	4	0/1/5/10	SM-X	–	–	–	●	–	●

Connect - Routers

Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | **Bundles** | Transition Guide |

▍Cisco ISR 4000 Series Bundles

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	–
	ISR4331-AXV/K9	–
Cisco ISR 4351	ISR4351-SEC/K9	–
	ISR4351-V/K9	–
	ISR4351-VSEC/K9	–
	ISR4351-AX/K9	–
	ISR4351-AXV/K9	–

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

Connect - Routers
Cisco ISR 4000 Series

WEB

Overview	Platform Spec	Licenses & Accessories	Bundles	Transition Guide

▌ Cisco ISR 4000 Series Cisco DNA Bundles NEW

Product SKU	Description	SD-WAN Bandwidth					
		10 Mbps	20 Mbps	50 Mbps	100 Mbps	500 Mbps	1 Gbps
ISR4331-DNA	Cisco 4331 with Cisco DNA Support	●	●	●	●	●	-
ISR4351-DNA	Cisco 4351 with Cisco DNA Support	●	●	●	●	●	-
ISR4451-DNA	Cisco 4451 with Cisco DNA Support	-	-	-	●	●	●

▌ Cisco DNA Licenses for Cisco ISR 4000 Series NEW

● **Cloud Management**: Provides simplicity of management with **Cisco vManage**; recommended for all SD-WAN deployments.

● **On-Premises Management**: Manages WAN using **Cisco DNA Center** or Cisco vManage on-premises.
   Cisco DNA Center requires an additional appliance purchase.

Software Package	Bandwidth	Product SKU (Cloud Management)		Product SKU (On-Premises Management)	
		3-Years	5-Years	3-Years	5-Years
Cisco DNA Essentials	10 Mbps	DNA-C-10M-E-3Y	DNA-C-10M-E-5Y	DNA-P-10M-E-3Y	DNA-P-10M-E-5Y
	20 Mbps	DNA-C-20M-E-3Y	DNA-C-20M-E-5Y	DNA-P-20M-E-3Y	DNA-P-20M-E-5Y
	50 Mbps	DNA-C-50M-E-3Y	DNA-C-50M-E-5Y	DNA-P-50M-E-3Y	DNA-P-50M-E-5Y
	100 Mbps	DNA-C-100M-E-3Y	DNA-C-100M-E-5Y	DNA-P-100M-E-3Y	DNA-P-100M-E-5Y
	500 Mbps	DNA-C-500M-E-3Y	DNA-C-500M-E-5Y	DNA-P-500M-E-3Y	DNA-P-500M-E-5Y
	1 Gbps	DNA-C-1G-E-3Y	DNA-C-1G-E-5Y	DNA-P-1G-E-3Y	DNA-P-1G-E-5Y
Cisco DNA Advantage	10 Mbps	DNA-C-10M-A-3Y	DNA-C-10M-A-5Y	DNA-P-10M-A-3Y	DNA-P-10M-A-5Y
	20 Mbps	DNA-C-20M-A-3Y	DNA-C-20M-A-5Y	DNA-P-20M-A-3Y	DNA-P-20M-A-5Y
	50 Mbps	DNA-C-50M-A-3Y	DNA-C-50M-A-5Y	DNA-P-50M-A-3Y	DNA-P-50M-A-5Y
	100 Mbps	DNA-C-100M-A-3Y	DNA-C-100M-A-5Y	DNA-P-100M-A-3Y	DNA-P-100M-A-5Y
	500 Mbps	DNA-C-500M-A-3Y	DNA-C-500M-A-5Y	DNA-P-500M-A-3Y	DNA-P-500M-A-5Y
	1 Gbps	DNA-C-1G-A-3Y	DNA-C-1G-A-5Y	DNA-P-1G-A-3Y	DNA-P-1G-A-5Y

Connect - Routers

Cisco ISR 4000 Series

WEB

| Overview | Platform Spec | Licenses & Accessories | Bundles | Transition Guide |

▊ Benefits of Upgrading to Cisco ISR 4000 Series

Features		ISR 1800/2800/3800	ISR 1900/2900/3900	ISR 4000	Benefits
Insights and Experiences	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
Automation and Assurance	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
Security and Compliance	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
Virtualization	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