



Cisco ISR 900 Series

NEW

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



C927-4P

| | | | | | | | | | | | |
|--------------------------------|-------------|-----------------|-----------|------------|---------------|----------------------|--------------------------|-----------------------|------------------------|--------------------------|---------------------------|
| 150 Mbps Max Crypto Throughput | IOS IP Base | x86 2.2 GHz CPU | 1 GB DRAM | 2 GB Flash | 1-port GE-WAN | 1-port VADSL Annex A | 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 |
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 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 |

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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

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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

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Secure, Flexible Connectivity for Small Business

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

Highlights

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



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| | | | | | | | |
|--------|---|--|--|---|---|---|---|
| GE WAN |  RV134W |  RV130W |  RV160W |  RV260W |  RV340W |  RV260P |  RV345P |
| |  RV130 |  RV042G |  RV160 |  RV260 |  RV340 |  RV345 |  RV320 |
| FE WAN |  RV132W |  RV215W |  RV042 | | | | |

Performance, Function, Flexibility, Scalability

→ High

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| Product SKU | Service (CSE) SKU | WAN Ports | | | | | LAN Ports | | PoE | | | IPsec Throughput | IPsec VPN Tunnels | | Web Filtering | Wireless | | | | AC Power |
|-------------------|-------------------|-----------|----|--------|------|-------|-----------|----|-------|--------------|------------|------------------|-------------------|---------------|---------------|----------|------|---------|-------|----------|
| | | FE | GE | GE/SFP | xDSL | 3G/4G | FE | GE | Ports | Power Budget | IEEE 802.3 | | Site-to-Site | Remote Access | | 11n | 11ac | 2.4 GHz | 5 GHz | |
| RV042-xx | CON-SMBS-V02xxxxx | 2 | - | - | - | - | 4 | - | - | - | - | 59 Mbps | 50 | 50 | - | - | - | - | - | External |
| RV042G-K9-xx | CON-SMBS-RV02G9xx | - | 2 | - | - | - | - | 4 | - | - | - | 75 Mbps | 50 | 50 | - | - | - | - | - | External |
| RV130-K9-xx | CON-SMBS-xxxxxxx | - | 1 | - | - | 1** | - | 4 | - | - | - | 50 Mbps | 10 | 10 | - | - | - | - | - | External |
| RV130-WB-K9-xx | CON-SMBS-xxxxxxx | - | 1 | - | - | 1** | - | 4 | - | - | - | 50 Mbps | 10 | 10 | ● | - | - | - | - | External |
| RV130W-x-K9-xx | CON-SMBS-V10W9xxx | - | 1 | - | - | 1** | - | 4 | - | - | - | 50 Mbps | 10 | 10 | - | ● | - | ● | - | External |
| RV130W-x-WB-K9-xx | - | - | 1 | - | - | 1** | - | 4 | - | - | - | 50 Mbps | 10 | 10 | ● | ● | - | ● | - | External |
| RV132W-x-K9-xx | CON-SMBS-RV13K9xx | 1 | - | - | 1 | 1** | 3 | - | - | - | - | 3 Mbps | 5 | 5 | - | ● | - | ● | - | External |
| RV134W-x-K9-xx | CON-SMBS-RV134Wxx | - | 1 | - | 1 | 1** | - | 4 | - | - | - | 20 Mbps | 5 | 5 | - | ● | ● | ● | ● | External |
| 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** | 4 | - | - | - | - | 5 Mbps | 1 | 5 | - | ● | - | ● | - | External |
| RV260-K9-xx | CON-SMBS-RV260xxx | - | - | 1 | - | 1** | - | 8 | - | - | - | 75 Mbps | 20 | 20 | ●*2 | - | - | - | - | External |
| RV260P-K9-xx | CON-SMBS-RV260xxx | - | - | 1 | - | 1** | - | 8 | 4 | 60 W | af | 75 Mbps | 20 | 20 | ●*2 | - | - | - | - | External |
| RV260W-x-K9-xx | CON-SMBS-RVxxxxxx | - | - | 1 | - | 1** | - | 8 | - | - | - | 75 Mbps | 20 | 20 | ●*2 | ● | ● | ● | ● | External |
| RV320-K9-xx | CON-SMBS-RV3xxxxx | - | 2 | - | - | 1** | - | 4 | - | - | - | 100 Mbps | 25 | 25 | - | - | - | - | - | External |
| RV325-K9-xx | CON-SMBS-RV35K9xx | - | 2 | - | - | 1** | - | 14 | - | - | - | 100 Mbps | 25 | 25 | - | - | - | - | - | External |
| RV340-K9-xx | CON-SMBS-RV340Kxx | - | 2 | - | - | 1** | - | 4 | - | - | - | 650 Mbps | 50 | 50 | ●*3 | - | - | - | - | External |
| RV340W-x-K9-xx | - | - | 2 | - | - | 1** | - | 4 | - | - | - | 650 Mbps | 50 | 50 | ●*3 | ● | ● | ● | ● | External |
| RV345-K9-xx | CON-SMBS-V345K9xx | - | 2 | - | - | 1** | - | 16 | - | - | - | 650 Mbps | 50 | 50 | ●*3 | - | - | - | - | External |
| RV345P-K9-xx | CON-SMBS-RV345Pxx | - | 2 | - | - | 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 Security License (LS-RV34X-SEC-1YR=) is required.

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Small but Mighty Business-class Routers

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

Highlights

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



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| Product SKU | Service (CSE) SKU | Cisco IOS | WAN Ports | | | | | | LAN Ports | | Wireless | | AppX | Security | | Rack mount | |
|---------------------------------|-------------------|----------------------|-----------|----|--------|------|------|-------|-----------|----|----------|--------|-----------------|----------|-----|------------|-----------------|
| | | | FE | GE | GE/SFP | ISDN | xDSL | Voice | FE | GE | AP | 4G LTE | | FW | VPN | | |
| C819H-K9 | CON-SMBS-C819HK9 | Advanced IP Services | - | 1 | - | - | - | - | - | 4 | - | - | - | ● | ● | ● | _* ³ |
| C819G-LTE-LA-K9 | CON-SMBS-C819TEK9 | Advanced IP Services | - | 1 | - | - | - | - | - | 4 | - | - | ● | ● | ● | ● | _* ⁴ |
| C819GW-LTE-LA-xK9 ^{*1} | CON-SMBS-C8QT9GWL | Advanced IP Services | - | 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 | - | - | 8 | - | ● | ● ^{*2} | ● | ● | ● | _* ⁶ |
| C898EAG-LTE-LA-K9 | CON-SMBS-C898EAGA | Advanced IP Services | - | - | 1 | - | 1 | - | - | 8 | - | ● | ● ^{*2} | ● | ● | ● | _* ⁶ |
| C899G-LTE-LA-K9 | CON-SMBS-C89LKEGL | Advanced IP Services | - | 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.

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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-3G | Multi Mode 3G WAN Module (Dual SIM) |
| WIM-LTE-AS | 4G LTE 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 |

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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, and DSL 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 wireless WAN (Roadmap)
- 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)



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| Product SKU | Service (CSE) SKU | Cisco IOS | Crypto Throughput*1 | WAN Ports | | | LAN Ports | | Wireless | | AppX | Security | | DRAM | Power Supply | Rack Mount |
|-------------|-------------------|-----------|---------------------|-----------|-----|------|-----------|----|----------|-----|------|----------|------|----------|--------------|------------|
| | | | | GE | SFP | xDSL | GE | AP | 4G LTE | FW | | VPN | | | | |
| C921-4P | - | IP Base*2 | 150 Mbps | 2 | - | - | 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 | -*8 | |
| C927-4P | - | IP Base*2 | 150 Mbps | 1 | - | 1*4 | 4 | - | - | -*6 | -*7 | -*7 | 1 GB | External | -*8 | |
| C927-4PM | - | IP Base*2 | 150 Mbps | 1 | - | 1*5 | 4 | - | - | -*6 | -*7 | -*7 | 1 GB | External | -*8 | |
| 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.



C921-4P, C931-4P



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



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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 |



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:

● 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

APP

SEC

IP Base

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| EoS Model | Existing Model | New Model | Description |
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| CISCO881-K9 CISCO881-SEC-K9 CISCO881C-K9 CISCO881GC-K9 | C881-K9 | C921-4P 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 150 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) |

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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 wireless WAN (select models)
- Built-in managed switch (all models)
- Optional integrated power supply for distribution of PoE/PoE+
- Built-in IEEE 802.11ac Wave 2-compatible wireless access point (wireless models)
- Cisco Mobility Express for flexible deployment



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Bundles for SD-WAN

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

*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/VDLSL2+ (Annex A). *7 Cisco LTE Advanced Pluggable is required.
 *8 Cisco IOS APP License is required. *9 Cisco IOS SEC License is required. *10 ACS-1100-RM-19 is required.

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Cisco IOS Technology Package Licenses

| Product SKU | Description |
|----------------|---|
| SL-1100-4P-SEC | Cisco IOS SEC License for Cisco ISR 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 1101-4PLTEP/4PLTEPWx

| Product SKU | Description |
|-------------|--|
| P-LTEA-LA | LTE Advanced (3GPP Category 6) Pluggable |

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) |

 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.

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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 |

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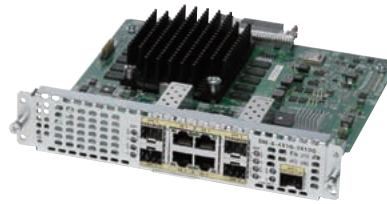
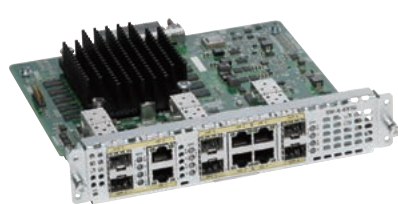
Meet All Your Needs with One Device

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

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

Highlights

- Cisco IOS Universal Image (IP Base/SEC/UC/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



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| 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.



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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 | - | - | - | - | ● | ● |

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

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

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Cisco Layer 2/3 EtherSwitch Modules

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

Cisco Gigabit Ethernet WAN Modules

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

Cisco Serial WAN Interface Modules

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

Cisco Async WAN Interface Modules

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

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Cisco Multimode VDSL2 and ADSL2/2+ Network Interface Modules

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

Cisco 4G LTE Network Interface Modules

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

Cisco T1/E1 Voice and WAN Network Interface Modules

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

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Cisco Analog Voice Network Interface Modules

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

Cisco Packet Voice Digital Signal Processor Modules (PVDMs)

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

*1 Supports up to 1,024 channels.

Cisco UCS E Series Servers

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

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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 | - |
| Cisco ISR 4331 | ISR4331-AXV/K9 | - |
| | ISR4331-SEC/K9 | - |
| | ISR4331-V/K9 | - |
| | ISR4331-VSEC/K9 | - |
| Cisco ISR 4351 | ISR4331-AX/K9 | - |
| | ISR4331-AXV/K9 | - |
| | ISR4351-SEC/K9 | - |
| | ISR4351-V/K9 | - |
| Cisco ISR 4351 | ISR4351-VSEC/K9 | - |
| | ISR4351-AX/K9 | - |
| | ISR4351-AXV/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 | - |
| Cisco ISR 4451 | ISR4431-AXV/K9 | - |
| | ISR4451-X-SEC/K9 | - |
| | ISR4451-X-V/K9 | - |
| | ISR4451-X-VSEC/K9 | - |
| Cisco ISR 4451 | ISR4451-X-AX/K9 | - |
| | ISR4451-X-AXV/K9 | - |
| | ISR4451-X-AXV/K9 | - |
| | ISR4451-X-AXV/K9 | - |

Cisco ISR 4000 Series Bundles Comparison

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



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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 |

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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 |

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