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## Transceiver Modules

## Multigigabit



## 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  
ASICNetwork  
Essentials  
(Perpetual)DNA  
Essentials  
(3/5/7-Years)Web UI  
CPCOver-the-Air  
via  
BluetoothBlue  
Beacon24-port  
GE PoE+  
Up to 370 WPerpetual  
PoE4-port  
SFP+Optional  
StackWise  
80 GbpsOptional  
Dual PS  
(FRU)1 RU  
Rack  
Mount

## C9200-48T-A

UADP 2.0  
Mini  
ASICNetwork  
Advantage  
(Perpetual)DNA  
Advantage  
(3/5/7-Years)Web UI  
CPCOver-the-Air  
via  
BluetoothBlue  
Beacon48-port  
GEOptional  
Network  
ModuleOptional  
StackWise  
160 GbpsOptional  
Dual PS/Fan  
(FRU)1 RU  
Rack  
Mount

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## Cisco Catalyst 2960-L Series

Entry-level, Fixed-Configuration, Layer 2 Gigabit Ethernet Switches

Powering Small Networks with Quietness & Ease



### WS-C2960L-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		

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## 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  
FeaturesIPv4/v6  
Static  
RoutingsFlow  
RSPAN2R3C  
Policing

Web UI

Smart  
Network  
Application6-port  
GE PoE+2-port  
2.5GE PoE+PoE Power  
Up to 124 W2-port  
10GB-T/SFP+

Desktop

### SG350X-24PD-K9-xx

Advanced  
Managed  
FeaturesIPv4/v6  
Static  
RoutingsFlow  
RSPAN2R3C  
Policing

Web UI

Smart  
Network  
Application20-port  
GE PoE+4-port  
2.5GE  
60 W PoEPoE Power  
Up to 375 W2-port  
SFP+2-port  
10GB-T/SFP+  
Hardware  
Stacking1 RU  
Rack  
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	Access, Distribution, and Core Switches			Data Center Switches
	On-Premises Managed	Cloud Managed		
Overview	 <p>SF/SG Switches</p>	 <p>Catalyst Switches</p>	 <p>Meraki MS Switches</p>	 <p>Nexus Switches</p>
Highlights	<ul style="list-style-type: none"> <li>Ideal for small and medium businesses</li> <li>Easy network management with Cisco FindIT Network Management</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for small and medium businesses, and organizations seeking to implement digital transformation</li> <li>Cisco Digital Network Architecture (DNA)-ready</li> </ul>	<ul style="list-style-type: none"> <li>Provides unified visibility and control of the entire network via a single dashboard: not only switching, but also wireless, and security appliances</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for both traditional and fully automated software-defined data center deployments</li> </ul>
Cisco Start Products	<ul style="list-style-type: none"> <li>Cisco 95 Series Unmanaged Switches</li> <li>Cisco 110 Series Unmanaged Switches</li> <li>Cisco 220 Series Smart Switches</li> <li>Cisco 250 Series Smart Switches</li> <li>Cisco 350 Series Managed Switches</li> <li>Cisco 350X Series Stackable Managed Switches</li> <li>Cisco 550X Series Stackable Managed Switches</li> </ul>	<ul style="list-style-type: none"> <li>Cisco Catalyst 2960-L Series</li> <li>Cisco Catalyst 2960-X Series</li> <li>Cisco Catalyst 3650 Series</li> <li>Cisco Catalyst 3850 Series</li> <li>Cisco Catalyst 9200 Series</li> </ul>	<ul style="list-style-type: none"> <li>Cisco Meraki MS120 Series</li> <li>Cisco Meraki MS210 Series</li> <li>Cisco Meraki MS220 Series</li> <li>Cisco Meraki MS225 Series</li> </ul>	<ul style="list-style-type: none"> <li>Cisco Nexus 9348GC-FXP</li> </ul>

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

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

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

SKU	Description	Max Distance	Compatible Series											Nexus
			SF/SG						Catalyst					9348
			95/110	220	250	350	350X	550X	2960-L	2960-X	3650	3850	9200	-
MGBT1	1000BASE-T SFP	100 m	●	●	●	●	●	●	-	-	-	-	-	-
MGBSX1	1000BASE-SX SFP	500 m	●	●	●	●	●	●	-	-	-	-	-	-
MGLBX1	1000BASE-LX SFP	10 km	●	●	●	●	●	●	-	-	-	-	-	-
MGLBH1	1000BASE-LH SFP	40 km	●	●	●	●	●	●	-	-	-	-	-	-
GLC-TE	1000BASE-T SFP	100 m	-	-	-	-	-	-	●	●	●	●	●	●
GLC-SX-MMD	1000BASE-SX SFP	1 km	-	-	-	-	-	-	●	●	●	●	●	●
GLC-LH-SMD	1000BASE-LX SFP	10 km	●	●	●	●	●	●	●	●	●	●	●	●
GLC-BX-D	1000BASE-BX SFP	10 km	-	-	-	-	-	-	●	●	●	●	●	-
GLC-BX-U	1000BASE-BX SFP	10 km	●	●	●	●	●	●	●	●	●	●	●	-
GLC-EX-SMD	1000BASE-EX SFP	40 km	-	-	-	-	-	-	●	●	●	●	●	-
GLC-ZX-SMD	1000BASE-ZX SFP	70 km	-	-	-	-	-	-	●	●	●	●	●	-



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

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

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



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## Transceiver Modules

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

SKU	Description	Max Distance	Compatible Series											
			SF/SG						Catalyst					Nexus
			95/110	220	250	350	350X	550X	2960-L	2960-X	3650	3850	9200	
QSFP-40G-SR-BD	40GBASE-SR QSFP+	150 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-SR4-S	S-class 40GBASE-SR4 QSFP+	150 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-SR4	40GBASE-SR4 QSFP+	150 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-CSR4	40GBASE-CSR4 QSFP+	400 m	-	-	-	-	-	-	-	-	●	-	●	
WSP-Q40GLR4L	40GBASE-LR4L QSFP+	2 km	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-LR4-S	S-class 40GBASE-LR4 QSFP+	10 km	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-LR4	40GBASE-LR4 QSFP+	10 km	-	-	-	-	-	-	-	-	●	-	●	
QSFP-40G-ER4	40GBASE-ER4 QSFP+	40 km	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-CU1M	40GBASE-CU QSFP+	1 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-CU3M	40GBASE-CU QSFP+	3 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-CU5M	40GBASE-CU QSFP+	5 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-ACU7M	40GBASE-ACU QSFP+	7 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-ACU10M	40GBASE-ACU QSFP+	10 m	-	-	-	-	-	-	-	-	●	-	●	
QSFP-H40G-AOC1M	40GBASE-AOC QSFP+	1 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC2M	40GBASE-AOC QSFP+	2 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC3M	40GBASE-AOC QSFP+	3 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC5M	40GBASE-AOC QSFP+	5 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC7M	40GBASE-AOC QSFP+	7 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC10M	40GBASE-AOC QSFP+	10 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC15M	40GBASE-AOC QSFP+	15 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC20M	40GBASE-AOC QSFP+	20 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC25M	40GBASE-AOC QSFP+	25 m	-	-	-	-	-	-	-	-	-	-	●	
QSFP-H40G-AOC30M	40GBASE-AOC QSFP+	30 m	-	-	-	-	-	-	-	-	-	-	●	



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

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



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

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

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

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



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#### Challenges for Wired LAN Posed by 11ac "Gigabit Wireless LAN"

IEEE 802.11ac is a super high-speed wireless standard that delivers a theoretical maximum throughput of up to 6.9 Gbps. Wireless LAN is literally entering the "Gigabit era", but the migration to 11ac is presenting wired LAN with "old and new" challenges. In other words, these are the same old challenges that were experienced during the migration from 11a/g to 11n.

During the migration from 11a/g to 11n, it was obvious that Fast Ethernet switches (max 100 Mbps) had insufficient capacity to serve 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.

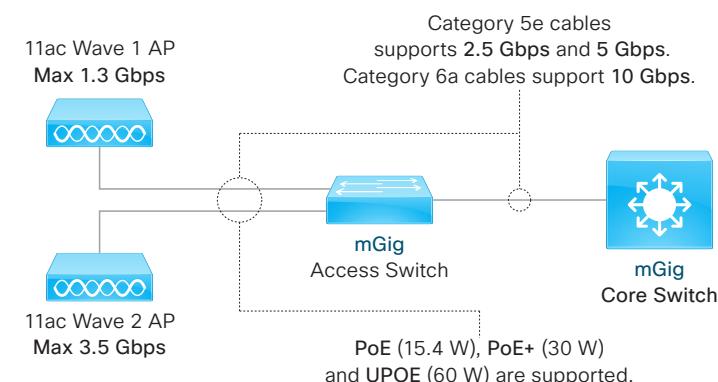
- Cable re-installation is required in many cases: Category 5e accounts for 46 % and Category 6 accounts for 28 % of the copper cables currently installed in corporations around the world, respectively. 10GE via copper is not supported for Category 5e cables and is limited to a length of 55 meters for 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.



#### Cisco Catalyst Multigigabit Technology (mGig): Speeds and Cables

Cable Type	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps
Cat 5e	●		●	-
Cat 6	●	●	●	●
Cat 6a	●	●	●	●

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# Cisco SF/SG Switches

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

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

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



#### Lineup

##### Cisco 95/110 Series Unmanaged Switches

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

##### Cisco 220 Series Smart Switches

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

##### Cisco 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.

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## Cisco 95 Series Unmanaged Switches

Product SKU	Service (CSE) SKU	Ports								PoE						AC Power	Fan less	Stackable	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	Stackable	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 <sup>*1</sup>	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 <sup>*1</sup>	CON-SMBS-SF0D16xx	16	-	-	-	-	-	-	-	-	-	-	-	-	-	External	●	-	-
SF110D-16HP-xx <sup>*1</sup>	CON-SMBS-0D16HPxx	16	-	-	-	-	-	-	-	8	-	64 W	af	-	-	External	●	-	-
SF110-16-xx <sup>*1</sup>	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

<sup>\*1</sup> The “-AU” SKUs have reached end-of-life status.

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## Cisco 220 Series Smart Switches

Product SKU	Service (CSE) SKU	Ports								PoE						AC Power	Fan less	Stackable	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 <sup>*1</sup>	CON-SMBS-F2029xx1	24	-	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF220-24P-K9-xx <sup>*1</sup>	CON-SMBS-F2029xx2	24	-	-	2	-	-	-	-	24	-	180 W	af/at	-	-	Internal	-	-	1 RU
SF220-48-K9-xx <sup>*1</sup>	CON-SMBS-F2049xx1	48	-	-	2	-	-	-	-	-	-	-	-	-	-	Internal	●	-	1 RU
SF220-48P-K9-xx <sup>*1</sup>	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	Stackable	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	-	2	-	-	-	-	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



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## Cisco 350 Series Managed Switches

Product SKU	Service (CSE) SKU	Ports								PoE						AC Power	Fan less	Stackable	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-SFxxxxxx	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-SFxxxxxx	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

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## 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-SG3xxxxx	-	-	-	-	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-SGxxxxxx	-	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-SGxxxxxx	-	-	-	-	-	10	2	-	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-24T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	22	-	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-24F-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	22	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG350XG-48T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	46	-	2	-	-	-	-	-	-	Internal	-	●	1 RU



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## 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-SFxxxxxx	24	-	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SF550X-24P-K9-xx	CON-SMBS-SFxxxxxx	24	-	-	-	-	-	2	2	24	8	195 W	af/at	-	-	Internal	-	●	1 RU
SF550X-24MP-K9-xx	CON-SMBS-Sxxxxxxxx	24	-	-	-	-	-	2	2	24	8	382 W	af/at	-	-	Internal	-	●	1 RU
SF550X-48-K9-xx	CON-SMBS-SFxxxxxx	48	-	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SF550X-48P-K9-xx	CON-SMBS-SFxxxxxx	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-SGxxxxxx	-	24	-	-	-	-	2	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550X-24P-K9-xx	CON-SMBS-SG5xxxxx	-	24	-	-	-	-	2	2	24	8	195 W	af/at	-	-	Internal	-	●	1 RU
SG550X-24MP-K9-xx	CON-SMBS-Sxxxxxxxx	-	24	-	-	-	-	2	2	24	8	382 W	af/at	-	-	Internal	-	●	1 RU
SG550X-24MPP-K9-xx	CON-SMBS-SGxxxxxx	-	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-SG5xxxxx	-	48	-	-	-	-	2	2	48	16	382 W	af/at	-	-	Internal	-	●	1 RU
SG550X-48MP-K9-xx	CON-SMBS-SG5xxxxx	-	48	-	-	-	-	2	2	48	16	740 W	af/at	-	-	Internal	-	●	1 RU
SG550XG-8F8T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	8	8	-	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-24T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	22	-	2	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-24F-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	22	2	-	-	-	-	-	-	Internal	-	●	1 RU
SG550XG-48T-K9-xx	CON-SMBS-SGxxxxxx	-	-	-	-	-	-	46	-	2	-	-	-	-	-	Internal	-	●	1 RU



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

Maintaining a business network is difficult without the right tools. The Cisco FindIT Network Management is purpose-built for managing networks of Cisco SF/SG Switches, 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 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 Switches, Cisco Wireless Access Points (WAP), and Cisco RV Series Routers.

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

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

In addition, you get:

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

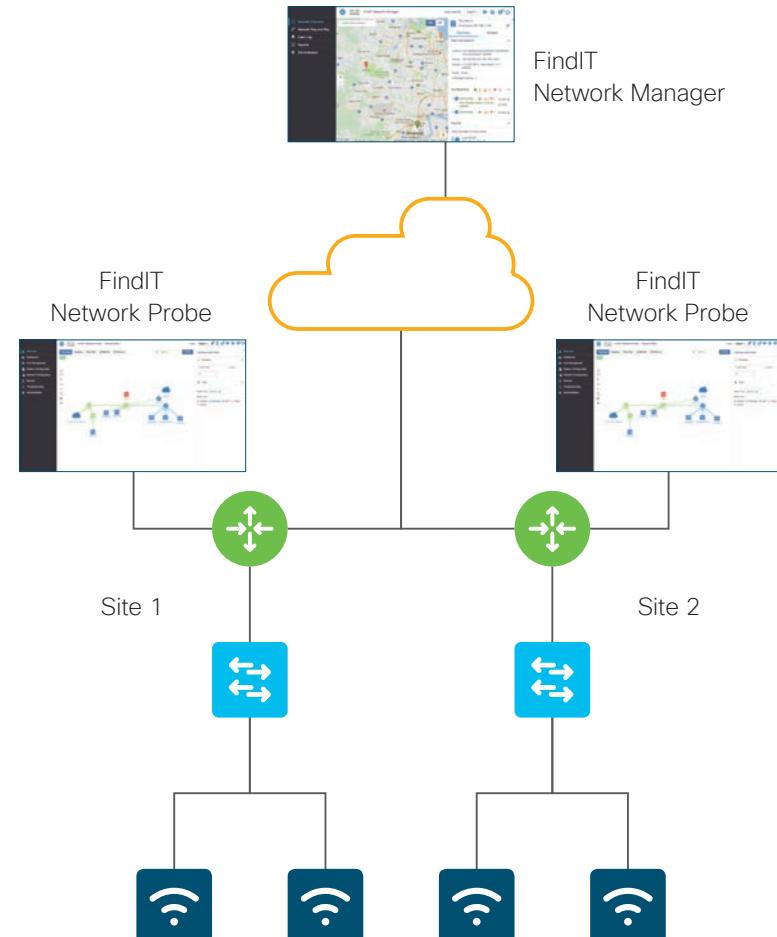
The Cisco FindIT Network Manager comprises two components:

- **Cisco FindIT Network Probe**

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

- **Cisco FindIT Network Manager**

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



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## 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 infrastructure devices in your network. Device licenses are required only for the Cisco SF/SG Switches products in your network.

You may manage up to 10 Cisco SF/SG Switches devices for evaluation purposes without a license.

To download the software, visit the following web site:



[www.cisco.com/go/findit-sw](http://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](http://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 reseller 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.

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## Cisco FindIT Network Discovery Utility: Handy Plug-In

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

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

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

To download the software, visit the following web site:

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

The screenshot shows the Cisco FindIT Network Discovery Utility interface. At the top, there's a browser window titled "SG350-10MP 10-Port Gigabit PoE Managed Switch". The main window is titled "FindIT" and has a sidebar with options like "Discovery", "Dashboard", "Configuration Wizards", and "Search". Under "Discovery", it lists "Cisco Small Business" with "Switch (2)" containing "SG350-10MP" and "SG200-08", and "Wireless (1)" containing "WAP371". The right side of the interface displays "System Summary" for the "SG350-10MP 10-Port Gigabit PoE Managed Switch". It includes sections for "System Information" (System Description: SG350-10MP 10-Port Gigabit PoE Managed Switch, System Location: SG350-10MP, Host Name: SG350-10MP, etc.), "Status and Statistics" (System Summary, CPU Utilization, Port Utilization, Interface, etc.), and "TCP/UDP Services Status" (HTTP Service: Enabled, HTTPS Service: Enabled, etc.).

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## Cisco Catalyst Switches

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## 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

Stackable layer 2 and layer 3 access switches that provide the foundational building blocks for the Cisco Digital Network Architecture (DNA).

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## Cisco IOS (C2K/C3K)

## Cisco IOS (C9K)

Modular Core				
Fixed Core				
Modular Access				
Fixed Access				
	 Catalyst 2960-Plus	 Catalyst 2960-X		 Catalyst 9200 <small>NEW</small>
Access/Compact		 Catalyst 2960-L		
Compact		 Catalyst 2960-CX	 Catalyst 3560-CX	
Performance & Scalability				→ High

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## 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 infrastructure software. LAN Lite and LAN Base feature sets provide the L2 level features, IP Lite, IP Base, and IP Services feature sets provide the L3 level features, respectively.

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

## Cisco IOS Compatibility

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

<sup>\*1</sup> 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	● <sup>*1</sup>	●	●	●	●
STP (Spanning Tree Protocol)	●	●	●	●	●
Flex Link	-	●	●	●	●
EtherChannel	●	●	●	●	●
LACP	●	●	●	●	●
Link State Tracking	● <sup>*2</sup>	●	●	●	●
Resilient Ethernet Protocol (REP)	-	-	-	● <sup>*3</sup>	● <sup>*3</sup>
Per-Port Storm Control	●	●	●	●	●

<sup>\*1</sup> Catalyst 2960-L Series only.

<sup>\*2</sup> Catalyst 2960-L Series are to be supported in future software release.

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

## Cisco IOS L3 Features

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

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



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## 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)	-	● <sup>1</sup>	-	●	●
Cisco IOS IP SLA (responder)	-	●	●	●	●
Cisco IOS IP SLA (initiator)	-	-	-	●	●
Cisco IOS EEM	-	-	-	●	●
Wireshark	-	-	-	●	●
Netflow-Lite	-	●	●	●	●
Flexible Netflow	-	-	-	●	●
EnergyWise	●	●	●	●	●
GOLD (GOLD-Lite)	●	●	●	●	●
OBFL	●	●	●	●	●

<sup>1</sup> 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	● <sup>1</sup>	●	●	●	●
Dynamic ARP Inspection (DAI)	● <sup>1</sup>	●	●	●	●
IP Source Guard	-	●	●	●	●
MAC Authentication Bypass for Voice	●	●	●	●	●
Private VLAN Edge	●	●	●	●	●
Private VLAN	-	-	●	●	●
Layer 2 - 4 ACL	-	●	●	●	●
Router ACL	-	● <sup>2</sup>	●	●	●
VLAN ACL	● <sup>1</sup>	-	●	●	●
Time Range ACL	-	●	●	●	●
Web Authentication	● <sup>1</sup>	●	●	●	●
TrustSec SXP	-	●	●	●	●
TrustSec SGT/SGACL	-	● <sup>2</sup>	●	●	●
MACsec	-	-	●	●	●
NEAT	-	●	●	●	●

<sup>1</sup> Catalyst 2960-L Series only.<sup>2</sup> Catalyst 3650/3850 Series are not supported.

## Cisco IOS QoS Features

Feature	LL	LB	IPL	IPB	IPS
SRR	●	●	●	●	●
Priority Queue	●	●	●	●	●
Auto QoS	● <sup>1</sup>	●	●	●	●
DSGP	● <sup>1</sup>	●	●	●	●
Weighted Tail Drop (WTD)	● <sup>2</sup>	● <sup>3</sup>	-	● <sup>3</sup>	●
Dynamic Buffer Limiting (DBL)	-	-	-	-	-
Control Plane Policing (CoPP)	-	● <sup>4</sup>	-	●	●
Per VLAN Policy	-	-	●	●	●

<sup>1</sup> Cisco Catalyst 2960-L Series are to be supported in future software release.<sup>2</sup> Catalyst 2960-L Series only. <sup>3</sup> Catalyst 3650/3850 Series only.<sup>4</sup> Catalyst 2960-X Series are not supported.

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## 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

DNA Essentials

DNA Essentials

DNA Advantage

DNA Advantage

DNA Essentials

DNA Premier

Stealthwatch

ISE Base + ISE Plus

DNA Advantage

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Network Essentials (Perpetual)  
for Layer 2 Routed Access



Network Advantage (Perpetual)  
for Full Layer 3 Routing

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## Cisco IOS (C2K/C3K)

## Cisco IOS (C9K)

## Network Essentials and Advantage Package Features (Cisco Catalyst 9200 Series)

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



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## Cisco IOS (C2K/C3K)

## Cisco IOS (C9K)

## Cisco DNA Essentials, Advantage, and Premier Package Features (Cisco Catalyst 9200 Series)

Feature	DNA Essentials	DNA Advantage	DNA Premier	
Switch Features	Advanced Telemetry and Visibility Full Flexible NetFlow, EEM	●	●	●
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	-	●	●
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)			
	-			



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# Cisco Catalyst 2960-L Series

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## Why 2960-L?

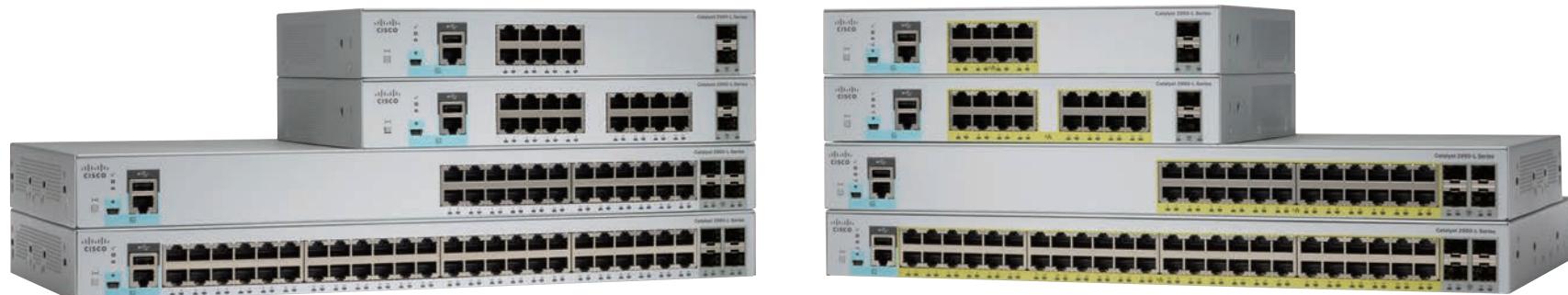
### Build Your Enterprise-Class Network with Simplicity and Value

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

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

### Highlights

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



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## Cisco Catalyst 2960-L Series

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## Why 2960-L?

Product SKU <sup>*1</sup>	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	●	- <sup>*2</sup>	
WS-C2960L-8PS-LL	CON-SMBS-WSC29606	LAN Lite	8	-	2	-	8	67 W	af/at	Internal	●	- <sup>*2</sup>	
WS-C2960L-16TS-LL	CON-SMBS-WSC2966L	LAN Lite	16	-	2	-	-	-	-	Internal	●	- <sup>*2</sup>	
WS-C2960L-16PS-LL	CON-SMBS-WSC2969S	LAN Lite	16	-	2	-	16	120 W	af/at	Internal	●	- <sup>*2</sup>	
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.

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## Cisco Catalyst 2960-L Series

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## Why 2960-L?

## Why Catalyst 2960-L?

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

- Noiseless, flexible deployment in a “fanless” design of not only the 8-port model, but also the 16-, 24- and 48-port models, with the only exception being the 48-port PoE 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.

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# Cisco Catalyst 2960-X Series

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



### Highlights

- Cisco IOS LAN Lite/LAN Base Image (Catalyst 2960-X)
- Cisco IOS IP Lite Image (Catalyst 2960-XR): Supports layer 3 features including Open Shortest Path First OSPF and Virtual Router Redundancy Protocol (VRRP)
- 10 GB SFP+ uplinks (select models)
- PoE+ output (PSE models)
- Perpetual PoE for powering a powered device even when the device is booting
- Resiliency with optional an external redundant power supply (LAN Base models) and dual redundant power supplies (IP Lite models)
- Stacking with Cisco FlexStack-Plus and FlexStack-Extended (LAN Base/IP Lite models)
- Device management support with: Intuitive web UI via Cisco Configuration Professional for Catalyst, over-the-air access via Bluetooth, Command-Line Interface (CLI), Simple Network Management Protocol (SNMP), RJ-45 or USB console access
- Cisco Digital Network Architecture (DNA)-ready: Supports Cisco NetFlow Lite and Cisco Flexible NetFlow<sup>\*1</sup> for application visibility at the access network, and so on (LAN Base/IP Lite models)

<sup>\*1</sup> Cisco ONE Foundation License or Cisco DNA Essentials License is required.

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## Cisco Catalyst 2960-X Series

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## Modules &amp; Accessories

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

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## Cisco Catalyst 2960-X Series

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## Cisco Redundant Power System (RPS) 2300

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

## 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



## Cisco FlexStack-Plus &amp; 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<sup>\*1</sup>

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<sup>\*1</sup>

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 &amp; Performance

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

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

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# Cisco Catalyst 3650/3850 Series

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### 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 StackWise-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 (DNA)-ready: Cisco DNA services can be delivered through Cisco ONE or Cisco DNA Licenses

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## Cisco Catalyst 3650/3850 Series

## Overview

## Platform Spec (3650)

## Platform Spec (3850)

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## Bundles

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



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



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Product SKU	Service (CSE) SKU	Cisco IOS	Downlinks				Fixed Uplinks			PoE			Power Supply			Rack Mount		
			GE	mGig	SFP	SFP/ SFP+	SFP	SFP/ SFP+	QSFP	Ports	60 W Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS		
WS-C3650-8X24PD-L	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



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



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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-WS50XSF	IP Base	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU
WS-C3850-48XS-F-E	CON-SMBS-WSC3854E	IP Services	-	-	-	48	-	-	4	-	-	-	-	750 W AC	-	●	1 RU



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## Platform Spec (3650)

## Platform Spec (3850)

## Licenses &amp; Accessories

## Bundles

Cisco IOS XE Upgrade License for Cisco Catalyst 3650 Series<sup>\*1</sup>

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

<sup>\*1</sup> L-C3650-RTU= is required.Cisco IOS XE Upgrade License for Cisco Catalyst 3850 Series<sup>\*1</sup>

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

<sup>\*1</sup> L-C3850-RTU= is required.Access Point License for Cisco Catalyst 3650/3850 Series<sup>\*1</sup>

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

<sup>\*1</sup> L-LIC-CT3650-UPG is required for Catalyst 3650.

L-LIC-CT3850-UPG is required for Catalyst 3850.



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## Cisco Catalyst 3650/3850 Series

Overview		Platform Spec (3650)	Platform Spec (3850)	Licenses & Accessories	Bundles															
<b>Power Supply Modules for Cisco Catalyst 3650 Series</b>																				
<table border="1"> <thead> <tr> <th>Product SKU</th><th>Description</th></tr> </thead> <tbody> <tr><td>PWR-C2-250WAC</td><td>250 W AC Power Supply Module</td></tr> <tr><td>PWR-C2-640WAC</td><td>640 W AC Power Supply Module</td></tr> <tr><td>PWR-C2-1025WAC</td><td>1025 W AC Power Supply Module</td></tr> <tr><td>PWR-C2-640WDC</td><td>640 W DC Power Supply Module</td></tr> <tr><td>PWR-C1-715WAC</td><td>715 W AC Power Supply Module</td></tr> <tr><td>PWR-C1-1100WAC</td><td>1100 W AC Power Supply Module</td></tr> <tr><td>PWR-C1-440WDC</td><td>440 W DC Power Supply Module</td></tr> </tbody> </table>					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
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																			
<b>Product SKU</b>	<b>Description</b>																			
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																			
<b>Cisco Redundant Power System (RPS) 2300</b>																				
<table border="1"> <thead> <tr> <th>Product SKU</th><th>Description</th></tr> </thead> <tbody> <tr><td>PWR-RPS2300</td><td>Cisco RPS 2300 Chassis (No Power Supply)</td></tr> <tr><td>C3K-PWR-750WAC</td><td>Cisco RPS 2300 750 W AC Power Supply</td></tr> <tr><td>CAB-RPS2300-E=</td><td>Cisco RPS 2300 cable</td></tr> </tbody> </table>					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								
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																			
<b>Product SKU</b>	<b>Description</b>																			
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																			
<b>Cisco StackWise-160 Module for Cisco Catalyst 3650 Series</b>																				
<table border="1"> <thead> <tr> <th>Product SKU</th><th>Description</th></tr> </thead> <tbody> <tr><td>C3650-STACK-KIT</td><td>Cisco StackWise-160 Module</td></tr> </tbody> </table>					Product SKU	Description	C3650-STACK-KIT	Cisco StackWise-160 Module												
Product SKU	Description																			
C3650-STACK-KIT	Cisco StackWise-160 Module																			
<b>Product SKU</b>	<b>Description</b>																			



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## Cisco Catalyst 3650 Series Bundles

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

## Cisco Catalyst 3650 Series Bundles

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

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**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 Common Licensing based operating system for the enterprise Cisco Catalyst 9000 product family with support for model-driven programmability and streaming telemetry
- 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 Units (FRU) and redundant power supply, fans (Catalyst 9200), and modular uplinks (Catalyst 9200)
- 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

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## Cisco Catalyst 9200 Series

Product SKU	Service (CSE) SKU	Software Package	Downlinks		Uplinks		Ports	PoE		Power Supply		Stack-Wise	Rack Mount
			GE	SFP	SFP/SFP+	Network Module Slot		Default	Max	Default	Max		
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

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

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

\*1 C9200L-DNA-E-24 is required. \*2 C9200L-DNA-E-48 is required.

\*3 C9200L-DNA-A-24 is required. \*4 C9200L-DNA-A-48 is required.

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

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

\*1 C9200-DNA-E-24 is required. \*2 C9200-DNA-E-48 is required.

\*3 C9200-DNA-A-24 is required. \*4 C9200-DNA-A-48 is required.



## 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.



software.cisco.com



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Cisco Catalyst 9200 Series NEW**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

**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



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## 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 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	
Advanced Security	Full Flexible NetFlow	-	-	●
	TrustSec and SGT	●	●	●
	Trustworthy Systems	● <sup>*1</sup>	● <sup>*1</sup>	●
	Native MACsec	-	-	●
Simplicity and Automation	IOS XE OS	-	-	●
	Model-Driven Programmability	-	-	●
	Streaming Telemetry	-	-	●
	SD-Access Programmability	-	-	●

\*1 Except some models.

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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



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## Cisco Meraki MS Cloud Managed Switches

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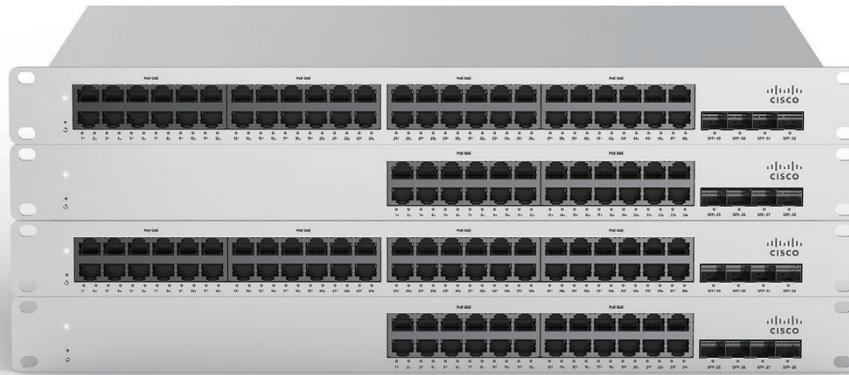
## Platform Spec

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

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

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



### Highlights

- **Multigigabit Ethernet:** Provide the higher performance demanded by the latest access points over existing cabling.
- **Flexible Stacking:** Simultaneously configure thousands of ports across standalone and physically stacked switches, regardless of location.
- **Layer 7 Visibility:** Meraki MS switches make 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.

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Access (Layer 2+)	 		
Access (Layer 2)			
Compact	 		

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## Cisco Meraki MS Cloud Managed Switches

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## Cisco Meraki MS120 Compact Series

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

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

## Cisco Meraki MS220 Compact Series

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

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



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## Cisco Meraki MS120 Series

Product SKU	Switching Capacity	Downlinks		Uplinks		PoE			Power Supply			Fan less	Stackable		Rack Mount
		GE	SFP	SFP+	Ports	Power Budget	IEEE 802.3	Default PS	Ext RPS	Dual PS	Virtual	Physical	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	-	-	-	●	-	-	●

## Cisco Meraki MS210 Series

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

## Cisco Meraki MS225 Series

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



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## Cisco Meraki Enterprise Licenses for Cisco Meraki MS120 Compact Series

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

## Cisco Meraki Enterprise Licenses for Cisco Meraki MS220 Compact Series

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

## Cisco Meraki Enterprise Licenses for Cisco Meraki MS120 Series

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



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

## Cisco Meraki Enterprise Licenses for Cisco Meraki MS225 Series

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

## Cisco Redundant Power System (RPS) 2300

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



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## Cisco 3504 Wireless Controller

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 24 Gbps  
Max  
Throughput150  
Max APs3,000  
Max ClientsCentral  
Mode

FlexConnect

Mesh

FlexConnect  
+  
Mesh

OfficeExtend

1-port  
mGig2-port  
GE PoE+2-port  
GE

Fanless

Desktop

Optional  
Side-by-Side  
Rack Mount

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

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

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

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## Cisco Wireless Access Points (WAP)

## 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)

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## Cisco Wireless Access Points (WAP)

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

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## Connect - Wireless

## Cisco Wireless Access Points (WAP)



## 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) <sup>*1</sup>		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
WAP131-x-K9-xx	CON-SMBS-WAP131AK	●	-	-	●	●	●	16	-	-	1	-	●	●	External
WAP150-x-K9-xx	CON-SMBS-WAP159xx	●	●	-	●	●	●	16	4	-	1	-	●	●	External

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

## Cisco 300 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) <sup>*1</sup>		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 <sup>*2</sup>	-	● <sup>*3</sup>	●	External
WAP371-x-K9	CON-SMBS-WAP71xK9	●	●	-	●	●	●	32	8	-	1	-	● <sup>*3</sup>	●	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) <sup>*1</sup>		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	-	● <sup>*2</sup>	●	-
WAP571E-x-K9	CON-SMBS-WAP571Ex	●	●	-	●	●	●	64	16	-	2	-	● <sup>*2</sup>	●	-
WAP581-x-K9	CON-SMBS-WAP581xK	●	●	●	●	●	●	64	16	-	1	1	● <sup>*2</sup>	●	-

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

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

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## Cisco Aironet Access Points

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## Industry-Leading Wireless Performance

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

## Highlights

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



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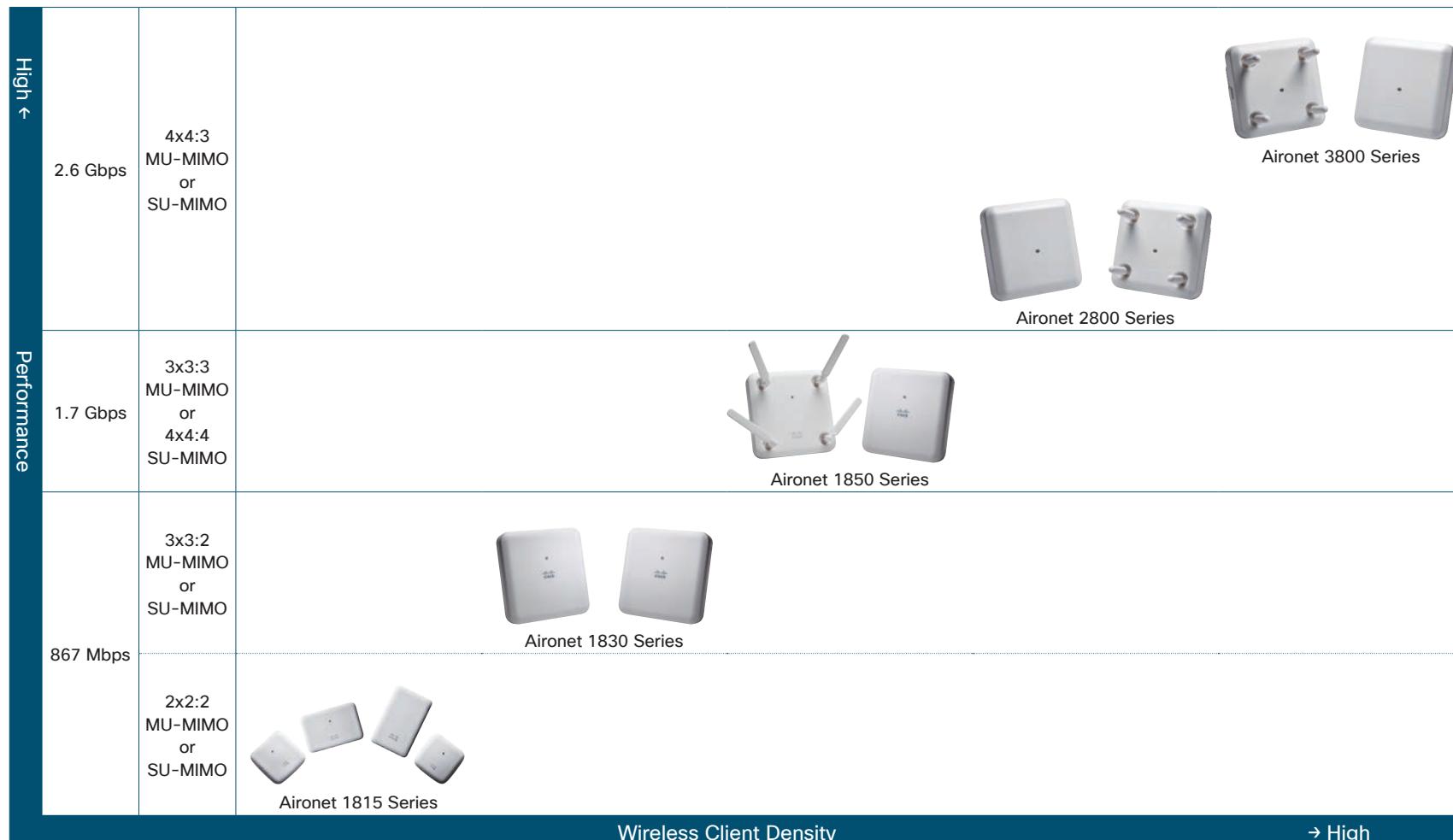
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## Cisco Aironet Access Points



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## Cisco Aironet 1815 Series

Product SKU	Service (CSE) SKU	Default Mode <sup>*1</sup>		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) <sup>*2</sup>		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	-	● <sup>*3</sup>	●	●	●	-	400	-	4 <sup>*4</sup>	-	-	-	Internal
AIR-AP1815W-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	4 <sup>*4</sup>	-	● <sup>*5</sup>	●	Internal
AIR-AP1815W-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	4 <sup>*4</sup>	-	● <sup>*5</sup>	●	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 <sup>*1</sup>		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) <sup>*2</sup>		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	-	● <sup>*3</sup>	●	Internal
AIR-AP1832I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	● <sup>*3</sup>	●	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 <sup>*1</sup>		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) <sup>*2</sup>		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	-	● <sup>*3</sup>	●	Internal
AIR-AP1852I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● <sup>*3</sup>	●	Internal
AIR-AP1852E-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	2	-	● <sup>*3</sup>	●	External
AIR-AP1852E-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● <sup>*3</sup>	●	External

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

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

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## Cisco Aironet Access Points



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## Cisco Aironet 2800 Series

Product SKU	Service (CSE) SKU	Default Mode <sup>*1</sup>		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) <sup>*2</sup>		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	-	● <sup>*3</sup>	●	Internal
AIR-AP2802I-x-K9	-	-	●	●	●	●	●	400	256	2	-	● <sup>*3</sup>	●	Internal
AIR-AP2802E-x-K9C	-	●	-	●	●	●	●	400	256	2	-	● <sup>*3</sup>	●	External
AIR-AP2802E-x-K9	-	-	●	●	●	●	●	400	256	2	-	● <sup>*3</sup>	●	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 <sup>*1</sup>		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) <sup>*2</sup>		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	● <sup>*3</sup>	●	Internal
AIR-AP3802I-x-K9	-	-	●	●	●	●	●	400	256	1	1	● <sup>*3</sup>	●	Internal
AIR-AP3802E-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● <sup>*3</sup>	●	External
AIR-AP3802E-x-K9	-	-	●	●	●	●	●	400	256	1	1	● <sup>*3</sup>	●	External
AIR-AP3802P-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● <sup>*3</sup>	●	External
AIR-AP3802P-x-K9	-	-	●	●	●	●	●	400	256	1	1	● <sup>*3</sup>	●	External

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

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



## What is Meant by a “x” Included in the SKU

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

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

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



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## Cisco Aironet Access Points

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Cisco Aironet Power Injectors & Power Supplies

Product SKU	Description	Compatible Models											
		1815i	1815m	1815t	1815w	1830i	1850i	1850e	2800i	2800e	3800i	3800e	3800p
AIR-PWRINJ5=	Power Injector (802.3af)	●	●	-	●	● <sup>*1</sup>	● <sup>*1</sup>	● <sup>*1</sup>	-	-	-	-	-
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

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## Cisco Wireless Controllers

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## Licenses &amp; Accessories

## 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

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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	
<b>Maximum Access Points</b>			
<a href="#">→ More</a>			

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## Cisco Wireless Controllers



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

Series Name	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports <sup>*1</sup>		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	-	-	-

<sup>\*1</sup> Depends on models.

## Cisco 3504 Wireless Controller

Product SKU	Service (CSE) SKU	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports		Rack <sup>*1</sup> 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

<sup>\*1</sup> Rack Mount Bracket (AIR-3504-RMNT=) is required.

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Cisco 3504 Wireless Controller License<sup>\*1</sup>

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

<sup>\*1</sup> LIC-CT3504-UPG is required.

## Cisco 3504 Wireless Controller Rack Mount Bracket

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



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# Cisco Meraki MR Cloud Managed Access Points



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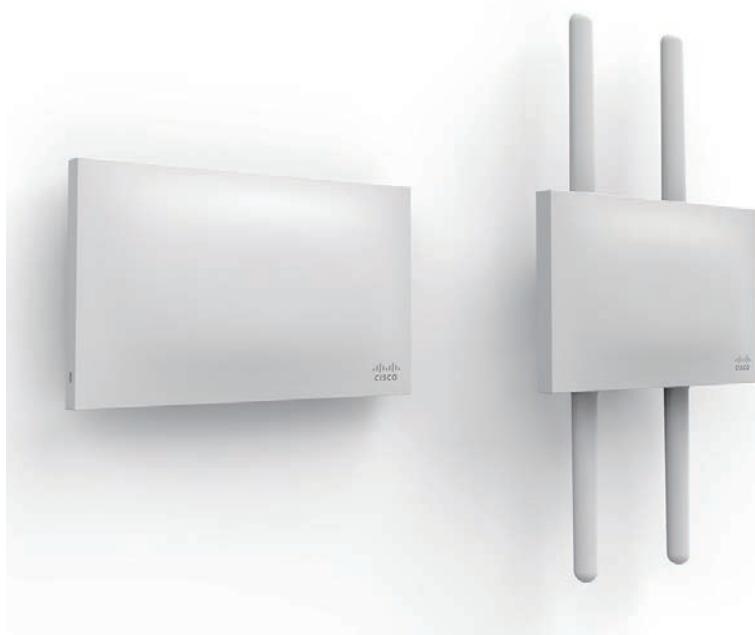
### 100 % Cloud Managed for Faster Deployment, Simplified Administration, and Richer Visibility

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

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

### Highlights

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



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## Connect - Wireless

## Cisco Meraki MR Cloud Managed Access Points

Cisco Meraki  
3 - 2 - 1 - Liftoff! Promotion

## Overview

## Positioning Map

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

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## Connect - Wireless

## Cisco Meraki MR Cloud Managed Access Points

Cisco Meraki  
3 - 2 - 1 - Liftoff! Promotion

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

<sup>\*1</sup> Local GE x 3 and PoE power supplying local GE x 1 are included.<sup>\*2</sup> Some features are disabled when powered via 802.3af PoE.

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## Cisco Meraki MR Cloud Managed Access Points

Cisco Meraki  
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## Cisco Meraki MR Cloud Managed Access Points Enterprise Licenses

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

## Cisco Meraki MR Cloud Managed Access Points Injectors &amp; 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	-	-	-	-	●

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## Connect - Wireless



## Cisco Connected Mobile Experiences (CMX) Cloud

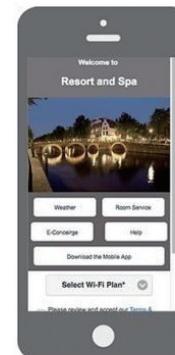
## Overview

## Licenses

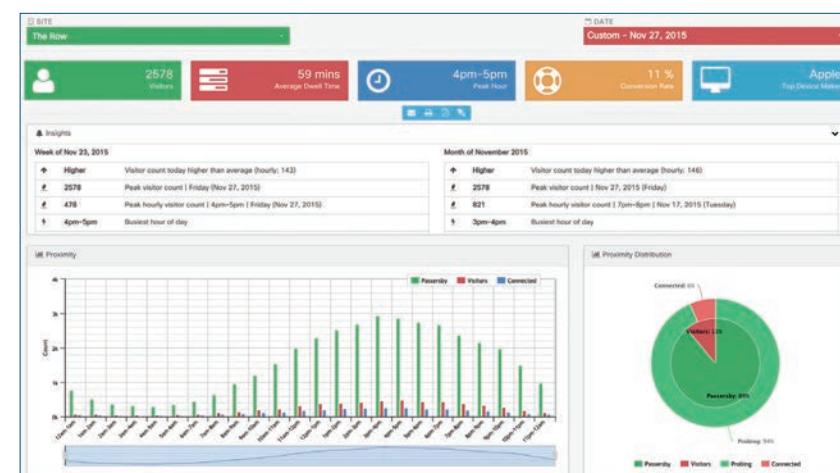
## Cloud-Delivered Wi-Fi Guest Access Solution that Engages Visitors and Enables Analytics and Insights

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

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



CMX Connect: Guest Portal



CMX Presence Analytics

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## Connect - Wireless



## Cisco Connected Mobile Experiences (CMX) Cloud

## Overview

## Licenses

## Cisco Connected Mobile Experiences (CMX) Cloud Licenses

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

It offers the following services:

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

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

<sup>1</sup> AIR-CMX-CLOUD is required.



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## 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  
ThroughputIOS  
IP Basex86  
2.2 GHz  
CPU1 GB  
DRAM2 GB  
Flash1-port  
GE-WAN1-port  
VADSL  
Annex A4-port GE  
Managed  
Switch1-port  
USB 2.0  
Type AExternal  
Power  
AdapterOptional  
1 RU  
Rack MountOptional  
Under Desk  
Mount

### C931-4P

250 Mbps  
Max Crypto  
ThroughputIOS  
IP Basex86  
2.2 GHz  
CPU1 GB  
DRAM2 GB  
Flash2-port  
GE-WAN4-port GE  
Managed  
Switch1-port  
USB 2.0  
Type AInternal  
Power  
SupplyOptional  
1 RU  
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Under Desk  
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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
DNA E or A or P Subscription	Application Aware Firewall	Snort IPS	URL Filtering	Optional 1 RU Rack Mount
			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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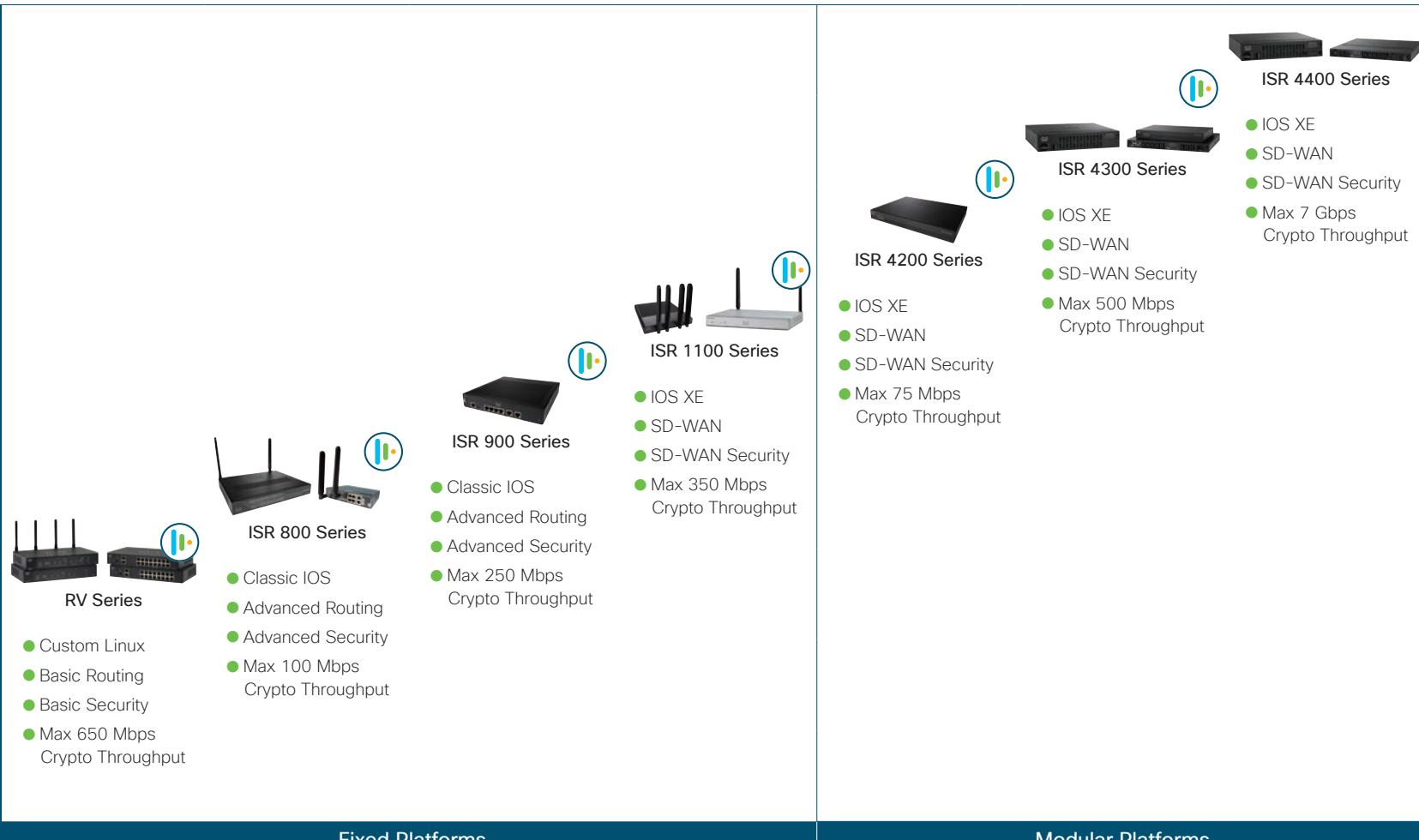
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High ↗

Performance, Function, Flexibility, Scalability



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## Connect - Routers

## Cisco RV Series

## Overview

## Positioning Map

## Platform Spec

## 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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## Connect - Routers

## Cisco RV Series

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	 11ac RV134W	 11ac RV130W	 11ac RV160W	 11ac RV260W	 11ac RV340W
GE WAN	 11ac RV130	 11ac RV160	 11ac RV260	 11ac RV340	 11ac RV345
	 11ac RV042G			 11ac RV320	 11ac RV325
FE WAN	 11ac RV132W	 11ac RV215W	 11ac RV042		

Performance, Function, Flexibility, Scalability

→ High

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## Connect - Routers

## Cisco RV Series

## Overview

## Positioning Map

## Platform Spec

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				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-xxxxxxxxx	-	1	-	-	1 <sup>*1</sup>	-	4	-	-	50 Mbps	10	10	-	-	-	-	External	
RV130-WB-K9-xx	CON-SMBS-xxxxxxxxx	-	1	-	-	1 <sup>*1</sup>	-	4	-	-	50 Mbps	10	10	●	-	-	-	External	
RV130W-x-K9-xx	CON-SMBS-V10W9xxx	-	1	-	-	1 <sup>*1</sup>	-	4	-	-	50 Mbps	10	10	-	●	-	●	External	
RV130W-x-WB-K9-xx	-	-	1	-	-	1 <sup>*1</sup>	-	4	-	-	50 Mbps	10	10	●	●	-	●	External	
RV132W-x-K9-xx	CON-SMBS-RV13K9xx	1	-	-	1	1 <sup>*1</sup>	3	-	-	-	3 Mbps	5	5	-	●	-	●	External	
RV134W-x-K9-xx	CON-SMBS-RV134Wxx	-	1	-	1	1 <sup>*1</sup>	-	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 <sup>*1</sup>	4	-	-	-	5 Mbps	1	5	-	●	-	●	External	
RV260-K9-xx	CON-SMBS-RV260xxx	-	-	1	-	1 <sup>*1</sup>	-	8	-	-	75 Mbps	20	20	● <sup>*2</sup>	-	-	-	External	
RV260P-K9-xx	CON-SMBS-RV260xxx	-	-	1	-	1 <sup>*1</sup>	-	8	4	60 W	af	75 Mbps	20	20	● <sup>*2</sup>	-	-	External	
RV260W-x-K9-xx	CON-SMBS-RVxxxxxx	-	-	1	-	1 <sup>*1</sup>	-	8	-	-	75 Mbps	20	20	● <sup>*2</sup>	●	●	●	External	
RV320-K9-xx	CON-SMBS-RV3xxxxx	-	2	-	-	1 <sup>*1</sup>	-	4	-	-	100 Mbps	25	25	-	-	-	-	External	
RV325-K9-xx	CON-SMBS-RV35K9xx	-	2	-	-	1 <sup>*1</sup>	-	14	-	-	100 Mbps	25	25	-	-	-	-	External	
RV340-K9-xx	CON-SMBS-RV340Kxx	-	2	-	-	1 <sup>*1</sup>	-	4	-	-	650 Mbps	50	50	● <sup>*3</sup>	-	-	-	External	
RV340W-x-K9-xx	-	-	2	-	-	1 <sup>*1</sup>	-	4	-	-	650 Mbps	50	50	● <sup>*3</sup>	●	●	●	External	
RV345-K9-xx	CON-SMBS-V345K9xx	-	2	-	-	1 <sup>*1</sup>	-	16	-	-	650 Mbps	50	50	● <sup>*3</sup>	-	-	-	External	
RV345P-K9-xx	CON-SMBS-RV345Pxx	-	2	-	-	1 <sup>*1</sup>	-	16	8	120 W	af/at	650 Mbps	50	50	● <sup>*3</sup>	-	-	-	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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## Connect - Routers

## Cisco ISR 800 Series



## Overview

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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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## Connect - Routers

## Cisco ISR 800 Series

Product SKU	Service (CSE) SKU	Cisco IOS	WAN Ports						LAN Ports		Wireless		AppX	Security		Voice	Rack mount
			FE	GE	GE/SFP	ISDN	xDSL	Voice	FE	GE	AP	4G LTE		FW	VPN		
C819H-K9	CON-SMBS-C819HK9	Advanced IP Services	-	1	-	-	-	-	4	-	-	-	●	●	●	-	- <sup>*5</sup>
C819G-LTE-LA-K9	CON-SMBS-C819TEK9	Advanced IP Services	-	1	-	-	-	-	4	-	-	●	●	●	●	- <sup>*6</sup>	
C819GW-LTE-LA-xK9 <sup>*1</sup>	CON-SMBS-C8QT9GWL	Advanced IP Services	-	1	-	-	-	-	4	-	●	●	●	●	●	- <sup>*6</sup>	
C841M-4X/K9	CON-SMBS-C841M4XK	Advanced IP Services	-	2	-	-	-	-	-	4	-	-	-	●	●	- <sup>*6</sup>	
C841M-8X/K9	CON-SMBS-C841M8XK	Advanced IP Services	-	2	-	-	-	-	-	4	-	-	-	●	●	- <sup>*6</sup>	
C867VAE	CON-SMBS-C867VAE	IP Base	-	1	-	-	1	-	3	2	-	-	-	-	-	-	
C867VAE-K9	CON-SMBS-C867VAK9	Advanced Security	-	1	-	-	1	-	3	2	-	-	-	●	●	-	
C881W-x-K9	CON-SMBS-C881WxK9	Advanced Security	1	-	-	-	-	-	4	-	●	-	-	●	●	-	
C881-V-K9	CON-SMBS-C881VK8	Advanced IP Services	1	-	-	-	-	7 <sup>*2</sup>	4	-	-	-	-	●	●	● <sup>*4</sup>	
C891F-K9	CON-SMBS-C891F8BB	Advanced IP Services	1	-	1	1	-	-	-	8	-	-	● <sup>*3</sup>	●	●	- <sup>*8</sup>	
C891-24X/K9	CON-SMBS-C89124K9	Advanced IP Services	-	-	2	-	-	-	-	24	-	-	-	●	●	- <sup>*9</sup>	
C892FSP-K9	CON-SMBS-C892FSPK	Advanced IP Services	-	1	1	-	-	-	-	8	-	-	● <sup>*3</sup>	●	●	- <sup>*8</sup>	
C897VA-K9	CON-SMBS-C897VAK9	Advanced IP Services	-	-	1	1	1	-	-	8	-	-	● <sup>*3</sup>	●	●	- <sup>*8</sup>	
C897VAG-LTE-LA-K9	CON-SMBS-CLTEAGK9	Advanced IP Services	-	-	1	-	1	-	-	8	-	●	● <sup>*3</sup>	●	●	- <sup>*8</sup>	
C898EAG-LTE-LA-K9	CON-SMBS-C898EAGA	Advanced IP Services	-	-	1	-	1	-	-	8	-	●	● <sup>*3</sup>	●	●	- <sup>*8</sup>	
C899G-LTE-LA-K9	CON-SMBS-C89LKEGL	Advanced IP Services	-	1	1	-	-	-	-	8	-	●	● <sup>*3</sup>	●	●	- <sup>*8</sup>	

<sup>\*1</sup> The "x" corresponds to the supported domain. <sup>\*2</sup> BRI x 2, FXS x 4, FXO x 1. <sup>\*3</sup> Feature License is required. <sup>\*4</sup> Call control and messaging are not supported.<sup>\*5</sup> Optional Floor/Wall Mounting Kit (ACS-810-FWM) and Flat Floor/Wall Mounting Kit (ACS-810-RFWM) are available.<sup>\*6</sup> 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.<sup>\*7</sup> ACS-800M-RM-19 is required. <sup>\*8</sup> ACS-890-RM-19 is required. <sup>\*9</sup> ACS-2901-RM-19 is required.

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## Connect - Routers

## Cisco ISR 800 Series

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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
L-FL-CME-SRST-5=	Cisco Unified CME or SRST 5 License for Cisco ISR 881-V

## 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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## Connect - Routers

Cisco ISR 900 Series NEW**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, 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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## Cisco ISR 900 Series

Product SKU	Service (CSE) SKU	Cisco IOS	Crypto Throughput <sup>*1</sup>	WAN Ports			LAN Ports	Wireless		AppX	Security		DRAM	Power Supply	Rack Mount
				GE	SFP	xDSL		GE	AP		FW	VPN			
C921-4P	-	IP Base <sup>*2</sup>	150 Mbps	2	-	-	4	-	-	- <sup>*6</sup>	- <sup>*7</sup>	- <sup>*7</sup>	1 GB	Internal	- <sup>*8</sup>
C926-4P	-	IP Base <sup>*2</sup>	150 Mbps	1	-	1 <sup>*3</sup>	4	-	-	- <sup>*6</sup>	- <sup>*7</sup>	- <sup>*7</sup>	1 GB	External	- <sup>*8</sup>
C927-4P	-	IP Base <sup>*2</sup>	150 Mbps	1	-	1 <sup>*4</sup>	4	-	-	- <sup>*6</sup>	- <sup>*7</sup>	- <sup>*7</sup>	1 GB	External	- <sup>*8</sup>
C927-4PM	-	IP Base <sup>*2</sup>	150 Mbps	1	-	1 <sup>*5</sup>	4	-	-	- <sup>*6</sup>	- <sup>*7</sup>	- <sup>*7</sup>	1 GB	External	- <sup>*8</sup>
C931-4P	-	IP Base <sup>*2</sup>	250 Mbps	2	-	-	4	-	-	- <sup>*6</sup>	- <sup>*7</sup>	- <sup>*7</sup>	1 GB	Internal	- <sup>*8</sup>

\*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:

[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

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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)

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## Cisco ISR 1100 Series

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## DNA 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 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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## DNA 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 <sup>*1</sup>	GE	GE/SFP	xDSL	GE	AP	4G LTE		FW	VPN		
C1101-4P	-	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	-	-	4	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	-
C1101-4PLTEP	-	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	-	-	4	-	- <sup>*7</sup>	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	-
C1101-4PLTEPWx <sup>*2</sup>	-	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	-	-	4	●	- <sup>*7</sup>	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	-
C1109-4PLTE2P <span style="color:red;">-NEW-</span>	-	IP Base <sup>*3</sup>	50 Mbps	200 Mbps	1	-	-	4	-	- <sup>*7</sup>	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	-
C1111-4P	CON-SMBS-C11114P	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	1	-	4	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-8P	CON-SMBS-C11118P	IP Base <sup>*3</sup>	50 Mbps	350 Mbps	1	1	-	8	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111X-8P	CON-SMBS-C11118P	IP Base <sup>*3</sup>	50 Mbps	350 Mbps	1	1	-	8	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	8 GB	- <sup>*10</sup>
C1111-4PWx <sup>*2</sup>	CON-SMBS-C111xW4P <sup>*2</sup>	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	1	-	4	●	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-8PWx <sup>*2</sup>	CON-SMBS-C111xW8P <sup>*2</sup>	IP Base <sup>*3</sup>	50 Mbps	350 Mbps	1	1	-	8	●	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-4PLTELA	CON-SMBS-C1114PAL	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	1	-	4	-	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-4PLTEEA <span style="color:red;">-NEW-</span>	-	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	1	1	-	4	-	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-8PLTELA	CON-SMBS-C1118PAL	IP Base <sup>*3</sup>	50 Mbps	350 Mbps	1	1	-	8	-	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1111-8PLTELAWx <sup>*2</sup>	CON-SMBS-C11118PW	IP Base <sup>*3</sup>	50 Mbps	350 Mbps	1	1	-	8	●	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1113-8P <span style="color:red;">-NEW-</span>	-	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	-	1	1 <sup>*4</sup>	4	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1117-4P	CON-SMBS-C11174P1	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	-	1	1 <sup>*5</sup>	4	-	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1117-4PWx <sup>*2</sup>	CON-SMBS-C111xxxx	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	-	1	1 <sup>*6</sup>	4	●	-	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1117-4PLTELA	CON-SMBS-C1114PLE	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	-	1	1 <sup>*6</sup>	4	-	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>
C1117-4PLTELAWx <sup>*2</sup>	CON-SMBS-C111Wx4P	IP Base <sup>*3</sup>	50 Mbps	250 Mbps	-	1	1 <sup>*6</sup>	4	●	●	- <sup>*8</sup>	- <sup>*9</sup>	- <sup>*9</sup>	4 GB	- <sup>*10</sup>

\*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 IOS APP License is required. \*9 Cisco IOS SEC License is required. \*10 ACS-1100-RM-19 is required.

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## Cisco ISR 1100 Series

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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 LTE Advanced Pluggable for Cisco ISR 1101-4PLTEP/4PLTEPWx

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

## 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)

## 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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HSEC

APP

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# Cisco ISR 1100 Series



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## DNA Bundles for SD-WAN

### Cisco ISR 1100 Series 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
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
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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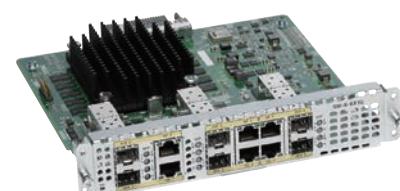
## Meet All Your Needs with One Device

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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## Cisco ISR 4000 Series

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

<sup>\*1</sup> Cisco IOS Booster Performance License is required.<sup>\*2</sup> 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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## 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* <sup>1</sup>	-	●	-	-	-	-
FL-4330-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4331* <sup>1</sup>	-	-	●	-	-	-
FL-4350-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4351* <sup>1</sup>	-	-	-	●	-	-
FL-44-HSEC-K9	Cisco IOS HSEC License for Cisco ISR 4400 Series* <sup>1</sup>	-	-	-	-	●	●
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* <sup>2</sup>	-	●	●	●	●	●
L-FL-CME-SRST-25	Cisco Unified CME or SRST 25 License* <sup>2</sup>	-	●	●	●	●	●
L-FL-CME-SRST-100	Cisco Unified CME or SRST 100 License* <sup>2</sup>	-	-	●	●	●	●
FL-CUBEE-5-RED	Cisco Unified BEE 5 Redundant Configuration License* <sup>2</sup>	-	●	●	●	●	●
FL-CUBEE-25-RED	Cisco Unified BEE 25 Redundant Configuration License* <sup>2</sup>	-	●	●	●	●	●
FL-CUBEE-100-RED	Cisco Unified BEE 100 Redundant Configuration License* <sup>2</sup>	-	●	●	●	●	●
SL-200-AKC	Cisco IWAN with Akamai Connect 200 Connections License* <sup>3</sup>	●	●	●	-	-	-
SL-750-AKC	Cisco IWAN with Akamai Connect 200 Connections License* <sup>3</sup>	-	-	●	●	●	-
SL-1300-AKC	Cisco IWAN with Akamai Connect 1,300 Connections License* <sup>3</sup>	-	-	●	●	●	●
SL-2500-AKC	Cisco IWAN with Akamai Connect 2,500 Connections License* <sup>3</sup>	-	-	●	●	-	●
SL-6K-AKC	Cisco IWAN with Akamai Connect 6,000 Connections License* <sup>3</sup>	-	-	●	●	-	●
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	-	-	-	● <sup>*1</sup>	-	●
SM-X-PVDM-3000	High-density Voice DSP Service Module (3,080-channel)	SM-X	-	-	-	● <sup>*1</sup>	-	●

<sup>\*1</sup> 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	Platform	Product SKU	Service (CSE) SKU
Cisco ISR 4221	ISR4221-SEC/K9	CON-SMBS-ISR4221S	Cisco ISR 4431	ISR4431-SEC/K9	-
	ISR4221-AX/K9	-		ISR4431-V/K9	-
Cisco ISR 4321	ISR4321-SEC/K9	-		ISR4431-VSEC/K9	-
	ISR4321-V/K9	-		ISR4431-AX/K9	-
	ISR4321-VSEC/K9	-		ISR4431-AXV/K9	-
	ISR4321-AX/K9	-		ISR4451-X-SEC/K9	-
	ISR4321-AXV/K9	-		ISR4451-X-V/K9	-
Cisco ISR 4331	ISR4331-SEC/K9	-	Cisco ISR 4451	ISR4451-X-VSEC/K9	-
	ISR4331-V/K9	-		ISR4451-X-AX/K9	-
	ISR4331-VSEC/K9	-		ISR4451-X-AXV/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	-			

## 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 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
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
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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Smart Net Total Care

Software Support

**Services****Cisco Technical Services****Overview****Results at the Speed of Business**

Operational inefficiencies can cause quality and performance issues that directly affect your users. You need to anticipate, detect, and resolve incidents quickly to minimize any risk to the business. A few minutes of downtime can be extremely costly.

That's where Cisco Services come in. A reliable partner to help you improve your IT operations and reduce risk.

**Services: Protection Beyond Warranty**

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

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

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

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

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

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

<sup>\*1</sup> Cisco Support Essentials supports 8 x 5 (Callback). <sup>\*2</sup> Cisco Support Essentials supports maintenance release update only.

<sup>\*3</sup> Cisco Software Support Service (SWSS) contract is required. <sup>\*4</sup> 24 x 7 x 2 Service Level contract is required. <sup>\*5</sup> Cisco Smart Call Home contract is required.