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## Overview

Cisco 4331 Integrated Services Router delivers 100 Mbps to 300 Mbps aggregate throughput and offers one Enhanced service-module (SM-X) slot, which supports for both single- and double-wide service modules provides flexibility in deployment options.

### Quick Specs

Figure 1 shows the appearance of Cisco ISR4331/K9.

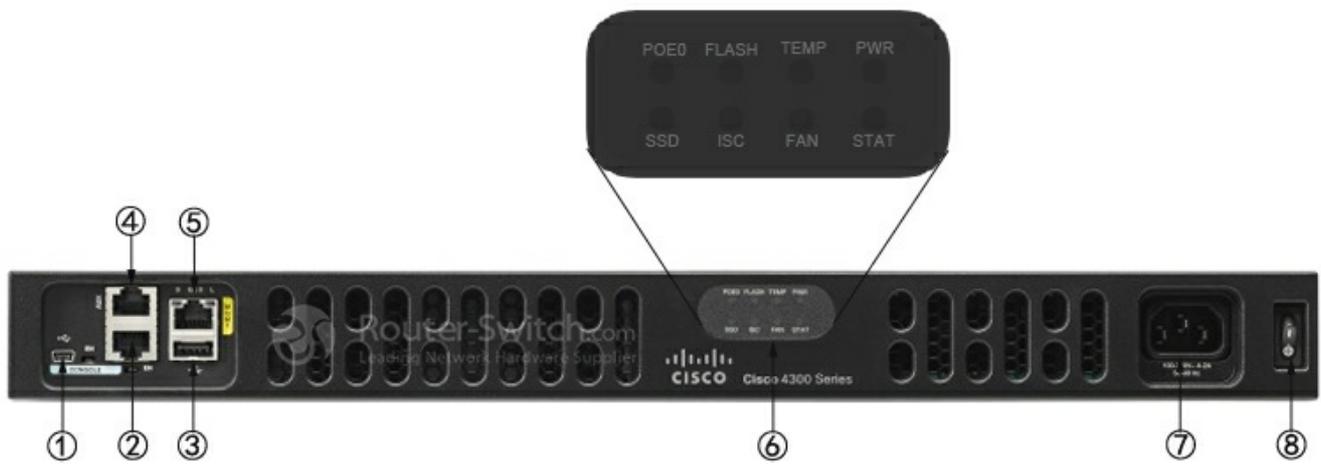


Table 1 shows the Quick Specs.

<b>Product Code</b>	Cisco ISR4331/K9
<b>Aggregate Throughput</b>	100 Mbps to 300 Mbps
<b>Total onboard WAN or LAN 10/100/1000 ports</b>	3
<b>RJ-45-based ports</b>	2
<b>SFP-based ports</b>	2
<b>Enhanced service-module (SM-X) slot</b>	1
<b>NIM (Network Interface Modules) slots</b>	2
<b>Onboard ISC slot</b>	1
<b>Memory</b>	4 GB (default) / 16 GB (maximum)
<b>Flash Memory</b>	4 GB (default) / 16 GB (maximum)
<b>Power-supply options</b>	Internal: AC and PoE
<b>Rack height</b>	1 RU
<b>Dimensions (H x W x D)</b>	44.45 x 438.15 x 438.15 mm
<b>Package Weight</b>	12.96 Kg

### Product Details

Figure 2 shows the front panel of Cisco ISR4331/K9.



Note:

(1)	USB Type B mini port	(5)	Management port
(2)	Serial console port	(6)	LEDs
(3)	USB Type A port	(7)	AC Power
(4)	AUX Port	(8)	Power switch

The LEDs include eight indicators.

**Table 2 shows the LED descriptions.**

LEDs	Represents	Color	Description
<b>POE0</b>	POE PSU	Green	PoE is on and providing power.
		Amber	PoE is in a failed condition.
		Off	PoE supply is not present.
<b>FLASH</b>	System Flash Status	Blinking Green	Compact flash/eUSB flash is present and currently being accessed.
<b>TEMP</b>	Temperature Status	Solid green	All temperature sensors in the system are within acceptable range.
		Amber	One or more temperature sensors in the system are outside the acceptable range.
		Off	Temperature is not being monitored.
<b>PWR</b>	System Power	Green	System power is on and functioning correctly.
		Green blinking	System power is in the process of shutting down.
		Amber	System power is up, but low level initialization failed.
		Amber blinking	System power is up, but the system failed to come out of reset.
		Off	System power is off.
<b>SSD</b>	mSATA Slot Status	Green	SSD mSATA is present and enabled.
		Amber	Initialized with error.
		Off	Not present.
<b>ISC</b>	ISC Slot Status	Green	PVDM4 is present and enabled.
		Amber	Initialized with error.

		Off	Not present.
<b>FAN</b>	Fan Status	Green	All fans are operating.
		Amber	One fan has stopped working.
		Blinking Amber	Two or more fans have stopped working, or the fan tray has been removed.
		Off	Fans are not being monitored.
<b>STAT</b>	System Status	Solid green	System operating normally.
		Blinking amber	BIOS/Rommon is booting.
		Amber	BIOS/Rommon has completed booting, and system is at Rommon prompt or booting platform software.
		Off	System is not out of reset or BIOS image is not loadable.

Figure 3 shows the back panel of Cisco ISR4331/K9.



Note:

(1)	RJ45 Ports	(3)	NIM Slots
(2)	SFP Ports	(4)	SM-X Slot

·(1) & (2) : These four ports include one combo port, one RJ45 port and one SFP port. **It means the RJ45 and SFP in the combo port can't be used at the same time.**

·NIM slots support one double-wide or two signal-wide modules.

·An SM-X slot can be converted into a Network Interface Module (NIM) slot using an optional carrier card.

## The Modules, Cards, Licenses & Accessories

Cisco ISR4331/K9 is one of the Cisco 4000 series routers, which support new modules & cards slots, such as NIM, ISC, etc. Besides, Cisco ISR4331/K9 can upgrade by licenses.

Table 3 shows some recommended modules, cards, licenses and accessories of Cisco ISR4331/K9.

Items	Models	Descriptions
<b>Console and Auxillary Cables</b>	<a href="#">CAB-AUX-RJ45</a>	Cisco CAB-AUX-RJ45 Auxiliary Cable 8ft with RJ45 and DB25M
	<a href="#">CAB-ETH-S-RJ45</a>	Cisco Router Cable CAB-ETH-S-RJ45
	<a href="#">CAB-CONSOLE-RJ45</a>	Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F

	<a href="#">CAB-CONSOLE-USB</a>	Cisco CAB-CONSOLE-USB Console Cable 6 ft with USB Type A and mini-B
<b>Licenses</b>	<a href="#">L-SL-4330-APP-K9=</a>	Cisco AppX license L-SL-4330-APP-K9= with 750 conns/ISRWAAS or 1300 conns/vWAAS for ISR4331
<b>Network Interface Modules</b>	<a href="#">NIM-1MFT-T1/E1</a>	Cisco Fourth-Generation Multiflex Trunk Voice and WAN network interface module
	<a href="#">NIM-2CE1T1-PRI</a>	Cisco Multiflex Trunk Voice and WAN network interface module
	<a href="#">NIM-4E/M</a>	Analog voice network interface card (ear and mouth)
	<a href="#">NIM-2FXS</a>	Cisco Analog voice network interface card NIM-2FXS
	<a href="#">NIM-2FXS/4FXO</a>	Cisco Analog voice network interface card NIM-2FXS/4FXO
	<a href="#">NIM-8MFT-T1/E1</a>	Cisco Fourth-Generation Multiflex Trunk Voice and WAN network interface module
<b>SFPs for On-Board GE Ports</b>	<a href="#">GLC-SX-MMD</a>	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
	<a href="#">GLC-LH-SMD</a>	Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
	<a href="#">GLC-ZX-SMD</a>	Cisco GLC-ZX-SMD 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM

## Compare to Similar Items

Technical Specifications	<a href="#">ISR4461/K9</a>	<a href="#">ISR4451-X/K9</a>	<a href="#">ISR4431/K9</a>	<a href="#">ISR4351/K9</a>	<a href="#">ISR4331/K9</a>	<a href="#">ISR4321/K9</a>	<a href="#">ISR4221/K9</a>
<b>Aggregate Throughput</b>	1.5Gbps	1 Gbps to 2 Gbps	500 Mbps to 1 Gbps	200 Mbps to 400 Mbps	100 Mbps to 300 Mbps	50 Mbps to 100 Mbps	35 Mbps to 75 Mbps
<b>Total onboard WAN or LAN 10/100/1000 ports</b>	4	4	4	3	3	2	2
<b>RJ-45-based ports</b>	4	4	4	3	2	2	2
<b>SFP-based ports</b>	4	4	4	3	2	1	1
<b>Enhanced service-module slots</b>	3	2	0	2	1	0	0
<b>Doublewide service-module slots</b>	2	1 (assumes no singlewide SM-X modules installed)	0	1 (assumes no singlewide SM-X modules installed)	0	0	0
<b>NIM slots</b>	3	3	3	3	2	2	2
<b>OIR (all I/O modules)</b>	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Onboard ISC slot</b>	1	1	1	1	1	1	No

## Get more information

Do you have any question about the Cisco ISR4331/K9?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

## Cisco ISR4331/K9 Specification

<b>Aggregate Throughput</b>	100 Mbps to 300 Mbps
<b>Total onboard WAN or LAN 10/100/1000 ports</b>	3
<b>RJ-45-based ports</b>	2
<b>SFP-based ports</b>	2
<b>Enhanced service-module slots</b>	1
<b>Doublewide service-module slots</b>	0
<b>NIM slots</b>	2
<b>OIR (all I/O modules)</b>	Yes
<b>Onboard ISC slot</b>	1
<b>Default memory double-data-rate 3 (DDR3) error-correction-code (ECC) DRAM (Combined control/services/data planes)</b>	4 GB
<b>Maximum memory DDR3 ECC DRAM (Combined control/services/data planes)</b>	16 GB
<b>Default memory DDR3 ECC DRAM (data plane)</b>	NA
<b>Maximum memory DDR3 ECC DRAM (data plane)</b>	NA
<b>Default memory DDR3 ECC DRAM (control/services plane)</b>	NA
<b>Maximum memory DDR3 ECC DRAM (control/services plane)</b>	NA
<b>Default flash memory</b>	4 GB
<b>Maximum flash memory</b>	16 GB
<b>External USB 2.0 slots (type A)</b>	1
<b>USB console port -type B mini (up to 115.2 kbps)</b>	1
<b>Serial console port - RJ45 (up to 115.2 kbps)</b>	1
<b>Serial auxiliary port - RJ45 (up to 115.2 kbps)</b>	1
<b>Power-supply options</b>	Internal: AC and PoE
<b>Redundant power supply</b>	N/A
<b>AC input voltage</b>	100 to 240 VAC autoranging
<b>AC input frequency</b>	47 to 63 Hz
<b>AC input current range, AC power supply (maximum)</b>	3 to 1.3A
<b>AC input surge current</b>	60 A peak and less than 5 Arms per half cycle
<b>Typical power (no modules) (watts)</b>	42
<b>Maximum power with AC power supply (watts)</b>	250
<b>Maximum power with PoE power supply (platform only) (watts)</b>	530
<b>Maximum endpoint PoE power available from PoE power supply (watts)</b>	250

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## Support and Resources

-  [Cisco 4000 Series Integrated Services Routers Configuration Guide](#)
-  [Cisco ISR 4000 Series Router Datasheet](#)
-  [Comparison of Cisco ISR 4000 Models](#)
-  [Cisco 4000 Series Integrated Services Routers Frequency Asked Question](#)

## Transition Guide

-  [Guide to Select New Cisco Routers](#)
-  [Guide to Upgrade Your ISR G1 and ISR G2 Routers to ISR 4000](#)

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