

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.

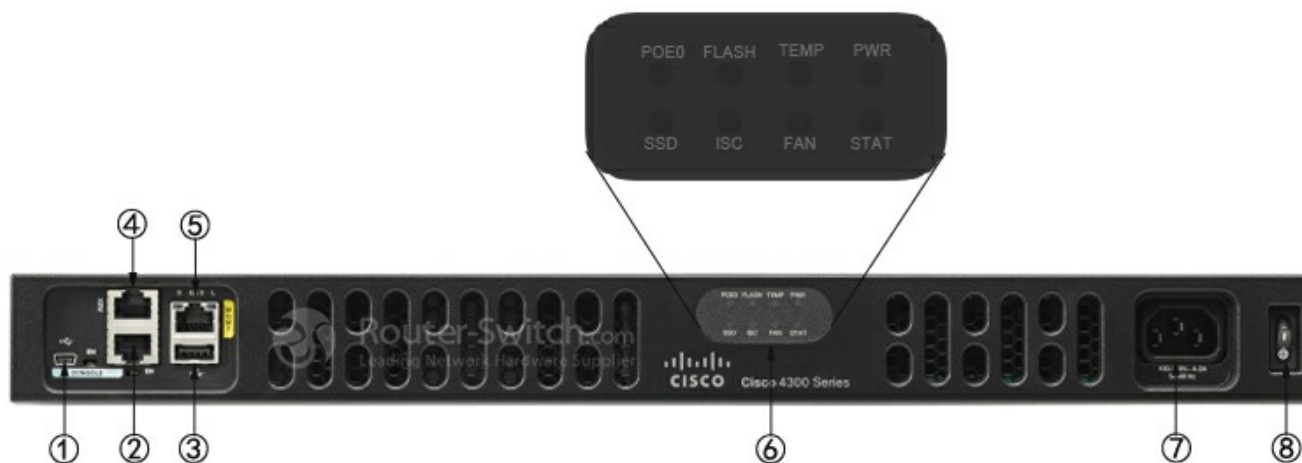


Table 1 shows the Quick Specs.

| | |
|--------------------------------------------|----------------------------------|
| Product Code | Cisco ISR4331/K9 |
| Aggregate Throughput | 100 Mbps to 300 Mbps |
| Total onboard WAN or LAN 10/100/1000 ports | 3 |
| RJ-45-based ports | 2 |
| SFP-based ports | 2 |
| Enhanced service-module (SM-X) slot | 1 |
| NIM (Network Interface Modules) slots | 2 |
| Onboard ISC slot | 1 |
| Memory | 4 GB (default) / 16 GB (maximum) |
| Flash Memory | 4 GB (default) / 16 GB (maximum) |
| Power-supply options | Internal: AC and PoE |
| Rack height | 1 RU |
| Dimensions (H x W x D) | 44.45 x 438.15 x 438.15 mm |
| Package Weight | 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 |
|--------------|---------------------|----------------|---------------------------------------------------------------------------------|
| POE0 | POE PSU | Green | PoE is on and providing power. |
| | | Amber | PoE is in a failed condition. |
| | | Off | PoE supply is not present. |
| FLASH | System Flash Status | Blinking Green | Compact flash/eUSB flash is present and currently being accessed. |
| TEMP | 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. |
| PWR | 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. |
| SSD | mSATA Slot Status | Green | SSD mSATA is present and enabled. |
| | | Amber | Initialized with error. |
| | | Off | Not present. |
| ISC | ISC Slot Status | Green | PVDM4 is present and enabled. |
| | | Amber | Initialized with error. |

| | | | |
|-------------|---------------|----------------|-------------------------------------------------------------------------------------------------|
| | | Off | Not present. |
| FAN | 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. |
| STAT | 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 |
|-------------------------------------|----------------------------------|---------------------------------------------------------------------|
| Console and Auxillary Cables | CAB-AUX-RJ45 | Cisco CAB-AUX-RJ45 Auxiliary Cable 8ft with RJ45 and DB25M |
| | CAB-ETH-S-RJ45 | Cisco Router Cable CAB-ETH-S-RJ45 |
| | CAB-CONSOLE-RJ45 | Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F |
| | CAB-CONSOLE-USB | Cisco CAB-CONSOLE-USB Console Cable 6 ft with USB Type A and mini-B |

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

Compare to Similar Items

| Technical Specifications | ISR4461/K9 | ISR4451-X/K9 | ISR4431/K9 | ISR4351/K9 | ISR4331/K9 | ISR4321/K9 | ISR4221/K9 |
|---------------------------------------------------|----------------------------|--------------------------------------------------|----------------------------|--------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Aggregate Throughput | 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 |
| Total onboard WAN or LAN 10/100/1000 ports | 4 | 4 | 4 | 3 | 3 | 2 | 2 |
| RJ-45-based ports | 4 | 4 | 4 | 3 | 2 | 2 | 2 |
| SFP-based ports | 4 | 4 | 4 | 3 | 2 | 1 | 1 |
| Enhanced service-module slots | 3 | 2 | 0 | 2 | 1 | 0 | 0 |
| Doublewide service-module slots | 2 | 1 (assumes no singlewide SM-X modules installed) | 0 | 1 (assumes no singlewide SM-X modules installed) | 0 | 0 | 0 |
| NIM slots | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| OIR (all I/O modules) | Yes | Yes | Yes | Yes | Yes | Yes | No |
| Onboard ISC slot | 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.

Specification

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

Download Resource

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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