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Overview

Cisco 4451 Integrated Services Router, named as ISR4451-X, which supports 2 Enhanced service-module (SM-X) slots, delivers 1 Gbps to 2Gbps aggregate throughput. This router also supports two kinds of DDRM, data plane and control/services plane, which make administrator easy to manage the router. The Cisco ISR4451-X-V/K9 is the 4451 Voice(V) Bundle.

Quick Specification

Figure 1 shows the appearance of ISR4451-X-V/K9.

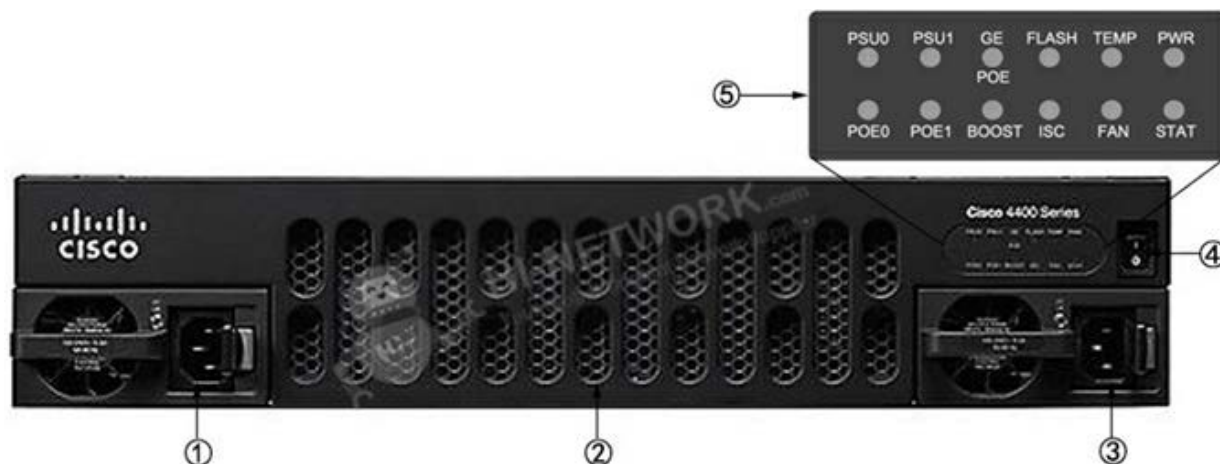


Table 1 shows the quick specification.

| | |
|--|---|
| Product Number | ISR4451-X-V/K9 |
| Product Description | Cisco ISR 4451 UC Bundle. PVD4-64. UC Lic. CUBE25 |
| Aggregate Throughput | 1 Gbps to 2Gbps |
| Total onboard WAN or LAN 10/100/1000 ports | 4 |
| RJ-45-based ports | 4 |
| SFP-based ports | 4 |
| Enhanced service-module (SM-X) slot | 2 |
| NIM (Network Interface Modules) slots | 3 |
| Onboard ISC slot | 1 |

Product Details

Figure 2 shows the LEDs on the front panel of the Cisco ISR4451-X/K9 for reference. ISR4451-X-V/K9 is similar with it.



Note:

| | | | |
|-----|-----------------------------|-----|----------------------------|
| (1) | AC power supply unit (PSU0) | (4) | Router power On/Off switch |
| (2) | Router fan tray | (5) | LEDs |
| (3) | AC power supply unit (PSU1) | | |

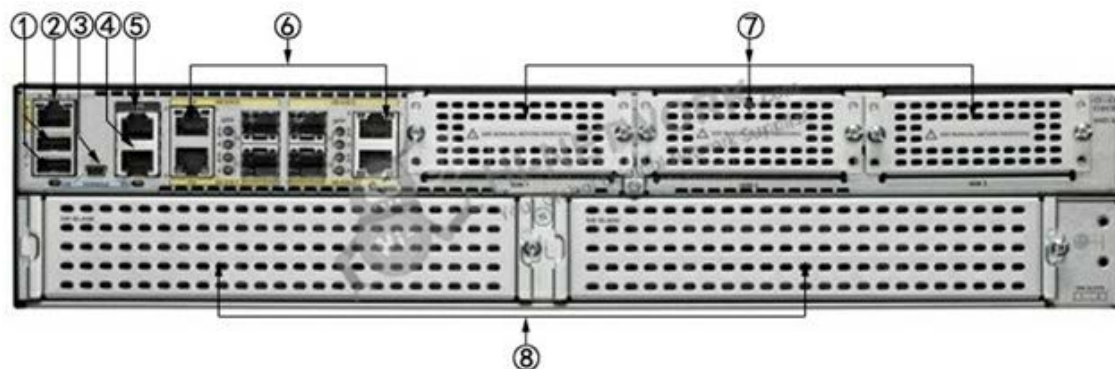
- Router fan tray is hidden behind removable bezel.
- LEDs include 12 indicators.

Table 2 shows the LED descriptions.

| LEDs | Represents | Color | Description |
|--------|--------------------------------------|----------------|---|
| PSU | Power Supply Unit (P0 and P1) Status | Green | PSU is on and is providing power. |
| | | Amber | PSU is on but with errors or in a failure condition. |
| | | Off | Power supply is turned off. |
| GE POE | Internal PoE Daughter Card Status | Green | PSU is installed and providing power |
| | | Amber | PSU is installed but in a failure condition. |
| | | Off | PSU is off. |
| 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. |
| POE BOOST | Power Over Ethernet Boost Mode | Green | Two PoE power supplies are installed and operating in boost mode. |
| | | Off | This can mean one of the following: · No PoE PSU installed. · One PoE PSU installed. · Two PoE PSUs installed and operating in redundant mode. |
| 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 ISR4451-X-V/K9.



Note:

| | | | |
|-----|----------------------|-----|----------------|
| (1) | USB Type A port | (5) | Auxiliary port |
| (2) | GE management port | (6) | GE Ports |
| (3) | USB Type B mini port | (7) | NIM Slots |
| (4) | Console port | (8) | SM-X Slot |

- The NIMs support 2 single-wide or 1 double-wide.
- The GE Ports include 4 RJ45 ports and 4 SFP ports.

The Modules, Cards, Licenses & Accessories

Table 3 shows some recommended modules, cards, licenses and several cables.

| 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-44-APP-K9= | Cisco ISR 4431/4451 AppX license L-SL-44-APP-K9= with WAAS/vWAAS 1300/2500 conns RTU |
| 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

Table 4 shows the comparison between ISR4451-X-V/K9 and ISR4351-V/K9.

| Product Number | ISR4451-X-V/K9 | ISR4351-V/K9 |
|--|--|--|
| Product Description | Cisco ISR 4451 UC Bundle. PVD4-64. UC Lic. CUBE25 | Cisco ISR4351-V/K9 (3GE,3NIM,2SM,4G FLASH,4G DRAM,Voice Bundle) |
| Aggregate Throughput | 1 Gbps to 2Gbps | 200 Mbps to 400 Mbps |
| Total onboard WAN or LAN 10/100/1000 ports | 4 | 3 |
| RJ-45-based ports | 4 | 3 |
| SFP-based ports | 4 | 3 |
| NIM slots | 3 | 3 |
| Onboard ISC slot | 1 | 1 |

Get More Information

Do you have any question about the ISR4451-X-V/K9?

Contact us now via info@hi-network.com.

Specification

| Cisco ISR4451-X-V/K9 Specification | |
|---|---|
| Product Number | ISR4451-X-V/K9 |
| Product Description | Cisco ISR 4451 UC Bundle. PVD4-64. UC Lic. CUBE25 |
| Aggregate Throughput | 1 Gbps to 2Gbps |
| Total onboard WAN or LAN 10/100/1000 ports | 4 |
| RJ-45-based ports | 4 |
| SFP-based ports | 4 |
| Enhanced service-module slots | 2 |
| Doublewide service-module slots | 1 (assumes no singlewide SM-X modules installed) |
| NIM slots | 3 |
| 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) | NA |
| Maximum memory DDR3 ECC DRAM (Combined control/services/data planes) | NA |
| Default memory DDR3 ECC DRAM (data plane) | 2 GB |
| Maximum memory DDR3 ECC DRAM (data plane) | 2 GB |
| Default memory DDR3 ECC DRAM (control/services plane) | 4 GB |
| Maximum memory DDR3 ECC DRAM (control/services plane) | 16 GB |
| Default flash memory | 8 GB |
| Maximum flash memory | 32 GB |
| External USB 2.0 slots (type A) | 2 |
| 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, DC and PoE |
| Redundant power supply | Internal: AC, DC and PoE |

| | |
|--|--|
| AC input voltage | 100 to 240 VAC auto-ranging |
| AC input frequency | 47 to 63 Hz |
| AC input current range, AC power supply (maximum) | 7.1 to 3.0A |
| AC input surge current | <50 A |
| Typical power (no modules) (watts) | 158 |
| Maximum power with AC power supply (watts) | 450 (no PoE) |
| Maximum power with PoE power supply (platform only) (watts) | 1000 with PoE redundant 1450 with PoE boost no redundancy |
| Maximum endpoint PoE power available from PoE power supply (watts) | 500 W with optional redundancy |
| Maximum endpoint PoE power capacity with PoE boost (watts) | 950 W no redundancy |

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