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Overview

ISR4321-AX/K9 intelligent WAN bundle combines security features, application experience and Wide Area Application Services (WAAS) features together into one platform. The intelligent WAN bundle optimizes network traffic across the “best” link based on applications and monitors network conditions to deliver the best performance as possible. In this platform, you get tight control over application performance, bandwidth usage, data privacy, and availability of your WAN links - control that you need as your branches conduct greater volumes of mission-critical business.

ISR4321-AX/K9 comes with IP base image, Security, AppX licensing for 200 TCP connection resources for ISR WAAS optimization and 4-GB DRAM, 4GB Flash memory, 50Mbps WAN bandwidth by default, to enable the ISR WAAS service, update memory, flash memory and hard drive is required, vWAAS service is not available on this platform.

Quick Specification

Figure 1 shows the appearance of Cisco ISR4321/K9 for reference. ISR4321-AX/K9 is similar with it.



Table 1 shows the Quick Specification.

Product Code	ISR4321-AX/K9
Aggregate Throughput	50 Mbps to 100 Mbps
Total onboard WAN or LAN 10/100/1000 ports	2
RJ-45-based ports	2
SFP-based ports	1
NIM (Network Interface Modules) slots	2
Onboard ISC slot	1

Memory	4 GB (default) / 8 GB (maximum)
Flash Memory	4 GB (default) / 8 GB (maximum)
Power-supply options	External: AC and PoE
Rack height	1 RU
Dimensions (H x W x D)	44.55 x 369.57 x 294.64 mm
Package Weight	9.19 Kg

Product Details

Figure 2 shows the LEDs on the front panel of the Cisco ISR4321/K9 for reference. ISR4321-AX/K9 is similar with it.



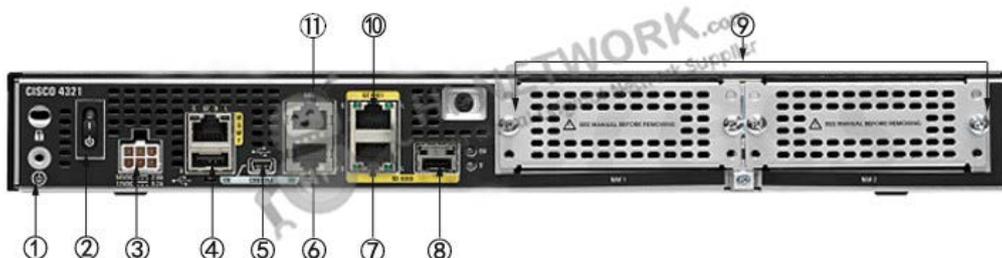
There are eight LEDs on the front panel.

Table 2 shows the description of these LEDs.

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 ISR4321/K9 for reference. ISR4321-AX/K9 is similar with it.



Note:

(1)	Grounding	(7)	GE 0/0/1 (copper cable) port
(2)	Power switch	(8)	GE 0/0/0 SFP (fiber-optic) port
(3)	Power input connector	(9)	NIM slots
(4)	GE "MGMT" port (with USB port below)	(10)	GE 0/0/0 RJ-45 (copper cable) port
(5)	USB Type B mini port	(11)	Auxiliary port
(6)	Console port		

· The NIMs support 2 single-wide or 1 double-wide.

The Modules, Cards, Licenses & Accessories

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

Items	Models	Description
License	L-SL-4320-APP-K9=	Cisco AppX license L-SL-4320-APP-K9= with 200 conns/ISRWAAS or 750 conns/vWAAS
Console and Auxillary Cables	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
Network Interface Modules	NIM-2CE1T1-PRI	Cisco Multiflex Trunk Voice and WAN network interface module
	NIM-1MFT-T1/E1	Cisco Fourth-Generation 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
SFPs for On-Board GE Ports	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
	GLC-SX-MMD	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM

Compare to Similar Items

Models	ISR4321-AX/K9	ISR4321/K9
Description	Cisco ISR4321-AX/K9 (2GE, 2NIM, 4G FLASH, 4G DRAM, IP Base, Security, AppX)	Cisco ISR 4321 (2GE, 2NIM, 4G FLASH, 4G DRAM, IP Base)
Aggregate Throughput	50 Mbps to 100 Mbps	50 Mbps to 100 Mbps
Total onboard WAN or LAN 10/100/1000 ports	2	2
RJ-45-based ports	2	2
SFP-based ports	1	1
Enhanced service-module slots	0	0
NIM slots	2	2
Onboard ISC slot	1	1
Rack height	1	1

Get More Information

Do you have any question about the Cisco ISR4321-AX/K9?

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Specification

ISR4321-AX/K9 Specification	
Description	50Mbps-100Mbps system throughput, 2 WAN/LAN ports, 1 SFP port, multi-Core CPU, 2 NIM, Security, Voice, WAAS, Intelligent WAN, OnePK, AVC
Aggregate Throughput	50 Mbps to 100 Mbps
Total onboard WAN or LAN 10/100/1000 ports	2
RJ-45-based ports	2
SFP-based ports	1
Enhanced service-module slots	0
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)	8 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	8 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	External: AC and PoE
Redundant power supply	N/A
AC input voltage	-
AC input voltage	100 to 240 VAC Autoranging
AC input frequency	47 to 63 Hz
AC input current range, AC power supply (maximum)	1.5 to 0.6A
AC input surge current	90 A peak and less than 3 Arms per half cycle

Typical power (no modules) (watts)	36
Maximum power with AC power supply (watts)	125
Maximum power with PoE power supply (platform only) (watts)	260
Maximum endpoint PoE power available from PoE power supply (watts)	120

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