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Overview

Cisco 4321 Integrated Services router is design to deliver advanced services to the small enterprise branch environment. It delivers 50Mbps throughput by default. ISR4321-VSEC/K9 is the Cisco ISR 4321 router with Bundle w/UC & SEC License, and CUBE-10.

Quick Specification

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



Table 1 shows the Quick Specification.

Product Code	ISR4321-VSEC/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

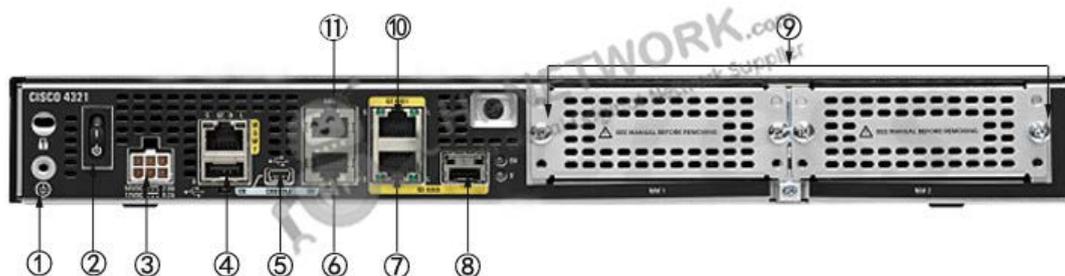
Product Details

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



· There are eight LEDs on the front panel.

Figure 3 shows the back panel of Cisco ISR4321/K9 for reference. ISR4321-VSEC/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.

Table 2. Voice Security Bundle Features Table.

Authentication and Encryption Features	<ul style="list-style-type: none"> • Media encryption of voice RTP streams using SRTP • Exchange of RTP Control Protocol (RTCP) information using secure RTCP • SRTP to RTP fallback for calls between secure and insecure endpoints • Secure calls supported in Cisco Unified Survivable Remote Site Telephony (SRST) mode during WAN failover • Compressed RTP (CRTP) supported with media encrypted calls using SRTP
Authentication and Encryption Algorithm	<ul style="list-style-type: none"> • Supports AES-128 encryption algorithm • Supports the HMAC secure hash authentication algorithm (SHA 1)
Signaling Authentication and Encryption Features	<ul style="list-style-type: none"> • Gateway to Cisco Unified Communications Manager signaling and encryption uses IPsec for Media Gateway Control Protocol (MGCP), H.323 and SIP gateways • IP phone to Cisco Unified Survivable Remote Site Telephony router signaling and encryption uses TLS (Transport Layer Security)
Protocol Support	<ul style="list-style-type: none"> • MGCP 0.1 (supports MGCP gateways with Cisco Unified Communications Manager) • H.323 (supported on H.323 gateways and CUBE; Cisco Unified Communications Manager interoperability is optional) • Session Initiation Protocol (SIP) • SCCP (Cisco Unified IP Phone) in SRST mode
Module Support	<ul style="list-style-type: none"> • Any module that has PVDM2, PVDM3 and/or built-in DSP
Codec Support	<ul style="list-style-type: none"> • G.711, G.729A, and G.729

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

Table 4 shows the comparison chart.

Models	ISR4321-VSEC/K9	ISR4321/K9
Description	Cisco ISR 4321 Bundle w/UC & SEC License. CUBE-10	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-VSEC/K9?

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Specification

ISR4321-VSEC/K9 Specification	
Description	Cisco ISR 4321 Bundle w/UC & SEC License. CUBE-10
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	4 GB

(Combined control/services/data planes)	
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	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

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