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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. ISR4331-VSEC/K9 is the Cisco ISR 4331 router bundled with UC & Sec Lic. PVDM4-32 and CUBE-10.

Quick Specification

Figure 1 shows the appearance of Cisco ISR4331/K9 for reference. ISR4331-VSEC/K9 is similar with it.



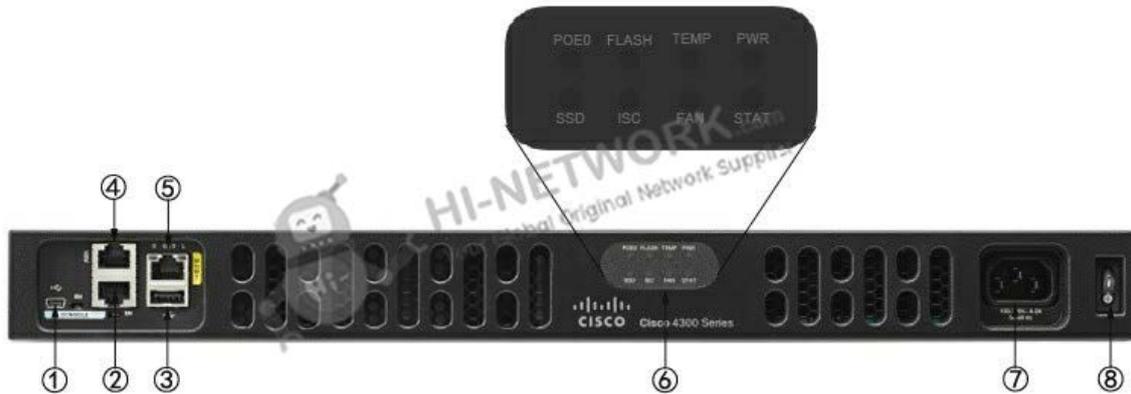
Table 1 shows the Quick Specification.

Product Code	ISR4331-VSEC/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 for reference. ISR4331-VSEC/K9 is similar with it



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

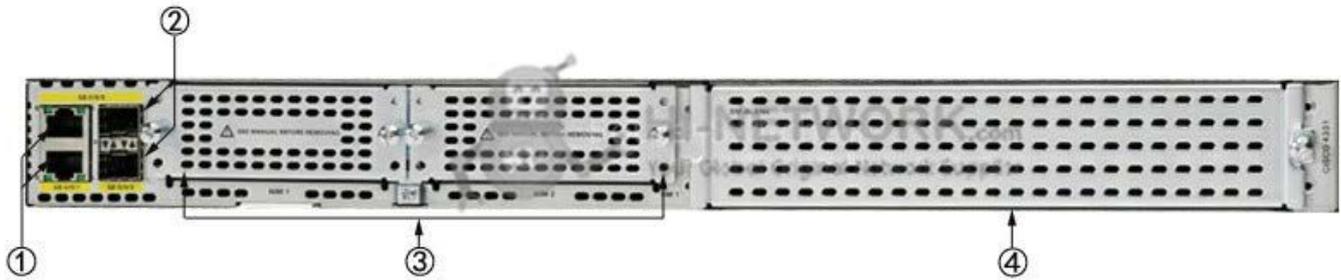
The LEDs include eight indicators.

Table 2. 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 PVD M2, PVD M3 and/or built-in DSP

Codec Support	• G.711, G.729A, and G.729
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Figure 3 shows the back panel of Cisco ISR4331/K9 for reference. ISR4331-VSEC/K9 is similar with it.



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

Table 3 shows some recommended modules, cards, licenses and accessories of Cisco ISR4331-VSEC/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

Table 4 shows the comparison chart.

Models	ISR4331-VSEC/K9	ISR4331/K9
Description	Cisco ISR 4331 Bundle with UC & Sec Lic. PVDM4-32. CUBE- 10	Cisco ISR 4331 (2GE,2NIM,1SM,4G FLASH,4G DRAM, IP Base)
Aggregate Throughput	100 Mbps to 300 Mbps	100 Mbps to 300 Mbps
Total onboard WAN or LAN 10/100/1000 ports	3	3
RJ-45-based ports	2	2
SFP-based ports	2	2
Enhanced service-module slots	1	1
NIM slots	2	2
Onboard ISC slot	1	1
Rack height	1	1

Get More Information

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

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Specification

ISR4331-VSEC/K9 Specification	
Description	Cisco ISR 4331 Bundle with UC & Sec Lic. PVDM4-32. CUBE-10s
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

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