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Overview

C3945-VSEC/K9 is the Cisco 3900 Router ISR G2 Voice Security Bundle. Its appearance is similar with CISCO3945/K9, but it's bundled with Voice Sec. Bundle, PVDM3-64, UC and SEC License PAK.

Quick Specification

Table 1 shows the Quick Specs of the C3945-VSEC/K9.

Product Code	C3945-VSEC/K9
Bundle	Cisco 3945 Voice Sec. Bundle, PVDM3-64, UC and SEC License PAK
Services Performance Engine module	w/SPE 150
Rack Units	3U
Interfaces	3 integrated 10/100/1000 Ethernet ports with 2 ports capable of RJ-45 or SFP connectivity 4 service module slots 1 Internal Services Module slot 4 onboard digital signal processor (DSP) slots
Expansion Slot(s)	4 Enhanced High-Speed WAN Interface Card (EHWIC) slots
RAM	1 GB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
Dimensions	47.6 cm x 43.8 cm x 13.3 cm

Figure 1 shows the appearance of C3945-VSEC/K9.



Product Details

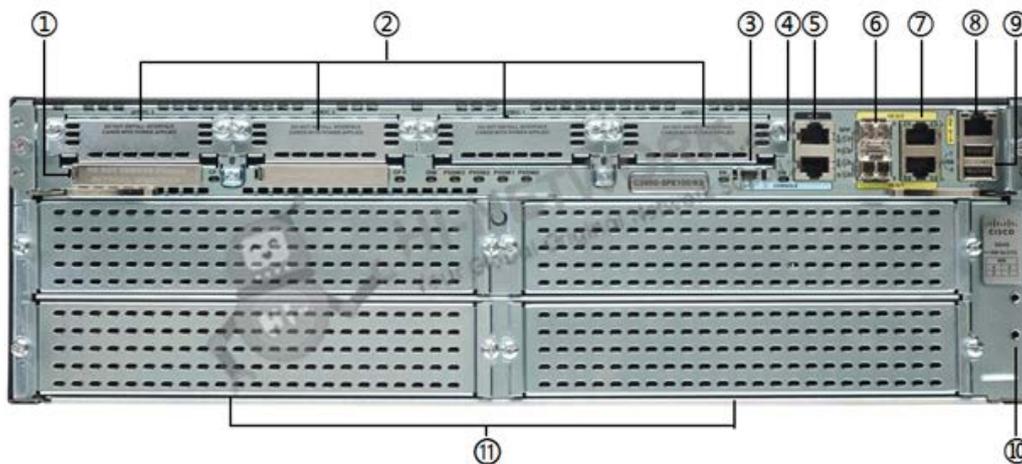
Figure 2 shows the front panel of the C3945-VSEC/K9.



Note:

(1)	(2)	(3)
On/Off switch	Power connector	LEDs area

Figure 3 shows the back panel of the Cisco C3945-VSEC/K9 with slots and ports.



Note:

(1)	Compact flash 0 and 1 (0, right)	(7)	10/100/1000 Ethernet port GE 0/1 and GE 0/2 (GE 0/1, down)
(2)	EHWIC 0,1,2 and 3 (0, far right)	(8)	10/100/1000 Ethernet port GE 0/0
(3)	USB serial port	(9)	USB 0 and USB 1 (1, top)
(4)	RJ-45 serial console port	(10)	Ground
(5)	AUX port	(11)	Service module slots
(6)	SFP 1 and SFP 2 (2, top)		

Table 2. Voice Security Bundle Features Table

Authentication and Encryption Features	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	Supports AES-128 encryption algorithm Supports the HMAC secure hash authentication algorithm (SHA 1)
Signaling Authentication and Encryption Features	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	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	Any module that has PVDM2, PVDM3 and/or built-in DSP
Codec Support	G.711, G.729A, and G.729

Modularity Features

Table 3 shows modules for this router.

Models	Description
C3900-SPE150/K9	Cisco Services Performance Engine 150 for Cisco 3945 ISR. (It's a configured item in the CISCO3945/K9.)
SM-ES3G-16-P	Enhanced EtherSwitch Service Module, L2/L3 switching, 16* 10/100/1000 GE ports, Enhanced POE, Cisco EnergyWise technology
SM-ES3G-24-P	Enhanced EtherSwitch Service Module, L2/L3 switching, 24 * 10/100/1000 GE ports, Enhanced POE, Cisco EnergyWise technology
VWIC3-2MFT-G703	Cisco Voice/WAN Card VWIC3-2MFT-G703
HWIC-2T	2-Port Serial WAN Interface Card Cisco Router High-Speed WAN Interface card
EHWIC-1GE-SFP-CU	Cisco 1900, 2900, 3900 Router EHWIC WAN Card EHWIC-1GE-SFP-CU
EHWIC-4ESG	Four port 10/100/1000 Base-TX Gigabit Ethernet switch interface card for Cisco 1900 2900 3900 Routers
ISM-SRE-300-K9	Internal Services Module (ISM) with Services Ready Engine
MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 1900,2900,3900
MEM-CF-256U2GB	256MB to 2GB Compact Flash Upgrade for Cisco 1900,2900,3900
MEM-CF-256U512MB	256MB to 512MB CF Upgrade for Cisco 1900,2900,3900 ISR
MEM-CF-256U4GB	256MB to 4GB Compact Flash Upgrade for Cisco 1900,2900,3900

Compare to Similar Routers

Table 4 shows the comparison of CISCO3945/k9 and C3945-VSEC/K9.

Model	CISCO3945/k9	C3945-VSEC/K9
Bundle	N/A	Cisco 3945 Voice Sec. Bundle, PVDM3-64, UC and SEC License PAK
SPE	w/SPE 150	w/SPE 150
Interface	3GE	3GE
EHWIC slots	4	4
SM slots	4	4
ISM slots	1	1
DSP	4	4
SFP	2	2
Rack Unit	3U	3U

Get More Information

Do you have any question about the C3945-VSEC/K9 router?

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Specification

C3945-VSEC/K9 Specifications	
Device Type	Router
Form Factor	Desktop - modular - 3U
Bundle	Cisco 3945 Voice Sec. Bundle, PVDM3-64, UC and SEC License PAK
Connectivity Technology	Wired
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Capacity	Cisco Unified Communications Manager Express sessions: 350 Cisco Unified SRST sessions: 1200
Network / Transport Protocol	IPSec, PPPoE, L2TPv3
Routing Protocol	OSPF, IS-IS, BGP, EIGRP, DVMRP, PIM-SM, IGMPv3, GRE, PIM-SSM, static IPv4 routing, static IPv6 routing, policy-based routing (PBR)
Remote Management Protocol	SNMP, RMON
Encryption Algorithm	SSL
Features	Firewall protection, VPN support, MPLS support, Syslog support, content filtering, IPv6 support, Class-Based Weighted Fair

C3945-VSEC/K9 Datasheet



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	Queuing (CBWFQ), Weighted Random Early Detection (WRED), Quality of Service (QoS), Dynamic Multipoint VPN (DMVPN)
Compliant Standards	IEEE 802.3, IEEE 802.1Q, IEEE 802.1ah, IEEE 802.1ag
DRAM Memory	1 GB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
LED Status Lights Indicators	Link activity, power
Communications	
Type	Voice / fax module
Digital Ports Qty	64
IP Telephony	
Voice Codecs	G.711, G.722, G.723.1, G.728, G.729, G.729a, G.729ab, G.726
Connectivity Slots	
Router Interfaces	3 x 10Base-T/100Base-TX/1000Base-T - RJ-45 Management: 1 x console - RJ-45 Management: 1 x console - mini-USB Type B Serial: 1 x auxiliary - RJ-45 Hi-Speed USB: 2 x 4 PIN USB Type A 2 x SFP (mini-GBIC)
Expansion Slots Total (Free)	4 (4) x EHWIC 4 (3) x PVDM 2 (1) x CompactFlash Card 1 (1) x Expansion Slot 4 (4) x service module (SM) 1 (1) x ISM
Power Supply	
Power Device	Power supply - internal
Voltage Required	AC 120/230 V (50/60 Hz)
Dimensions / Weight / Miscellaneous	
Width	43.8 cm
Depth	47.6 cm
Height	13.3 cm
Weight	17.7 kg
Compliant Standards	CISPR 22 Class A, CISPR 24, EN55024, EN55022 Class A, EN50082-1, AS/NZS 60950-1, AS/NZ 3548 Class A, CAN/CSA-E60065-00, ICES-003 Class A, CS-03, FCC CFR47 Part 15, EN300-386, UL 60950-1, IEC 60950-1, EN 60950-1, CSA C22.2 No. 60065, BSMI CNS 13438
System Software	
IOS Software Included	Cisco IOS Security
Software Included	Cisco IOS Unified Communications



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