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Overview

C2901-VSEC/K9 is the Cisco Router ISR G2 with Voice Security Bundle. Its appearance is similar with CISCO2901/K9, but it's bundled with Voice Sec. Bundle, PVDM3-16, UC and SEC License PAK.

Quick Specification

Table 1 shows the Quick Specs of the C2901-VSEC/K9.

Product Code	C2901-VSEC/K9
Bundle	Cisco 2901 Voice Sec. Bundle, PVDM3-16, UC and SEC License PAK
Rack Units	1U
Interfaces	2 integrated 10/100/1000 Ethernet ports
Expansion Slot(s)	2 onboard digital signal processor (DSP) slots 4 enhanced high-speed WAN interface card slots 1 onboard Internal Service Module for application services
RAM	512 MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
Dimensions	43.9 cm x 43.8 cm x 4.5 cm
Power	AC 120/230 V (50/60 Hz)

Product Details

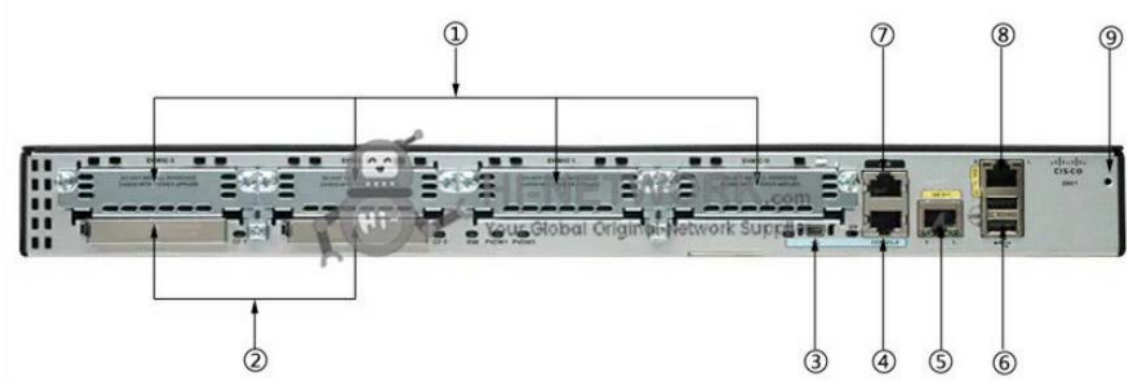
Figure 1 shows the front panel of the Cisco 2901 router with ports and LEDs. C2901-VSEC/K9 is similar with it.



Note:

(1)	SYS	(4)	On/Off switch
(2)	ACT	(5)	AC power connector
(3)	POE		

Figure 2 shows the back panel of the Cisco 2901 router. C2901-VSEC/K9 is similar with it.



Note:

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

Table 2 shows the Voice Security Bundle Features.

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	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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Modularity Features

Table 3 shows some recommended modules for this router.

Models	Description
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 vb 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
MEMUSB-1024FT	1GB USB Flash Token

Compare to Similar Routers

Table 4 shows the comparison between CISCO2901/K9 and C2901-VSEC/K9.

Model	CISCO2901/K9	C2901-VSEC/K9
Bundle	N/A	Voice Security Bundle
Interface	2GE	2GE
EHWIC slot	4	4
SIM Slot	0	0
SFP	0	0
Memory	512MB (installed) / 2 GB (max)	512MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)	256 MB (installed) / 8 GB (max)
Rack Unit	1U	1U

Get More Information

Do you have any question about the C2901-VSEC/K9 router?

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Specification

C2901-VSEC/K9 Specifications	
Manufacturer	Cisco Systems, Inc
Manufacturer Part Number	C2901-VSEC/K9
Bundle	Cisco 2901 Voice Sec. Bundle, PVDM3-16, UC and SEC License PAK
Product Type	Router
Form Factor	External - modular - 1U
Dimensions (WxDxH)	43.9 cm x 43.8 cm x 4.5 cm
Weight	6.1 kg
DRAM Memory	512 MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
Routing Protocol	OSPF, IS-IS, BGP, EIGRP, DVMRP, PIM-SM, IGMPv3, GRE, PIM-SSM, static IPv4 routing, static IPv6 routing
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Network / Transport Protocol	IPsec
Remote Management Protocol	SNMP, RMON
Digital Ports Qty	16
Features	Firewall protection, VPN support, MPLS support, Syslog support, IPv6 support, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Dynamic Multipoint VPN (DMVPN)
Compliant Standards	IEEE 802.1ah, IEEE 802.1ag
Power	AC 120/230 V (50/60 Hz)

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HongKong Office Tel: +00852-66181601

HangZhou Office Tel: +0086-571-86729517

Email: info@hi-network.com

Skype: echo.hinetwork

WhatsApp Business: +8618057156223