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# Overview

C2921-VSEC/K9 is the Cisco Router ISR G2 with Voice Security Bundle. Its appearance is similar with CISCO2921/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 C2921-VSEC/K9.**

| Product Code | C2921-VSEC/K9 |
|---|---|
| Bundle | Cisco 2921 Voice Sec. Bundle, PVDM3-32, UC and SEC License PAK |
| Rack Units | 2U |
| Interfaces | 3 integrated 10/100/1000 Ethernet ports (RJ-45 only) |
| Expansion Slot(s) | 2 service module slot<br>1 Internal Service Module slot<br>● onboard digital signal processor slots<br>● Enhanced high-speed WAN interface card (EHWIC) slots |
| RAM | 512 MB (installed) / 2 GB (max) |
| Flash Memory | 256 MB (installed) / 8 GB (max) |
| Dimensions | 47 cm x 43.8 cm x 8.9 cm |

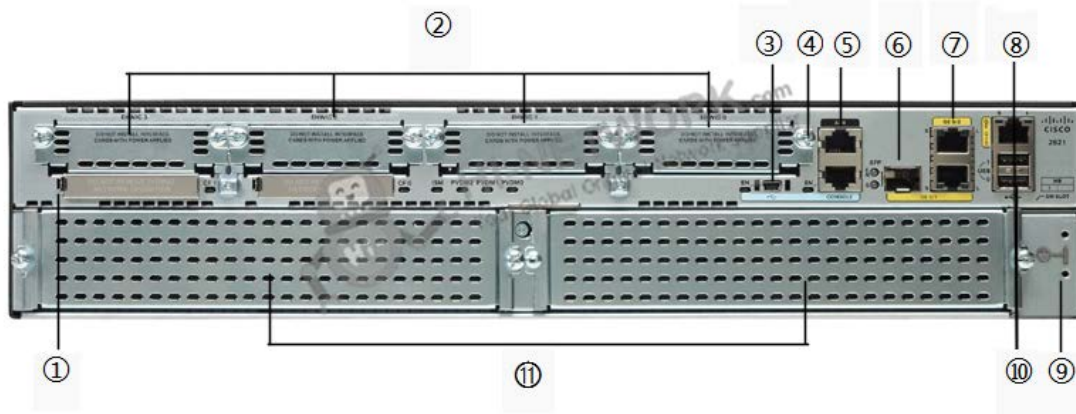**Figure 1 shows the front view of C2921-VSEC/K9.**

# Product Details

**Figure 1 shows the front panel of CISCO2921/K9. C2921-VSEC/K9 is similar with it.**
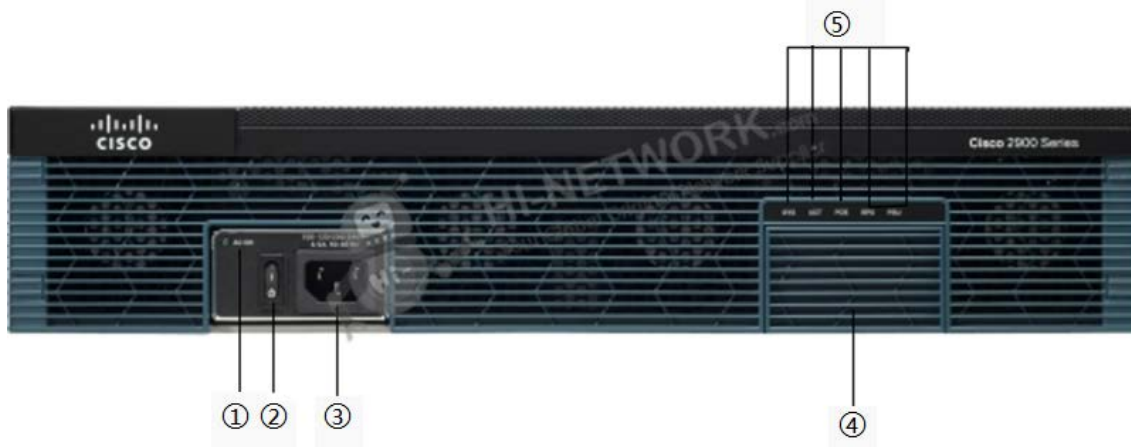


Note:

| | | | |
|---|---|---|---|
| (1) | AC OK | (4) | Optional RPS adapter (blank panel shown) |
| (2) | On/Off switch | (5) | LEDs area |
| (3) | AC power connector | | |

**Figure 2 show the expansion slots and ports on the back panel.**



Note:

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

**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 some recommended modules for this router.**

| Models | Description |
|---|---|
| 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 |
| 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 |
| PVDM3-16 | 16-channel high-density voice DSP module |
| 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 CISCO2921/K9 and C2921-VSEC/K9.**

| Model | CISCO2921/K9 | C2921-VSEC/K9 |
|---|---|---|
| Bundle | N/A | Voice Security Bundle |
| Interface | 3GE | 3GE |
| EHWIC slot | 4 | 4 |
| SIM Slot | 1 | 1 |
| SFP | 1 | 1 |
| Memory | 512MB (installed) / 2 GB (max) | 512MB (installed) / 2 GB (max) |
| Flash Memory | 256MB (installed) / 8 GB (max) | 256MB (installed) / 8 GB (max) |
| Rack Unit | 2 U | 2 U |

## Get More Information

Do you have any question about the C2921-VSEC/K9 router?

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# Specification

| C2921-VSEC/K9 Specifications | |
|---|---|
| Manufacturer | Cisco Systems, Inc |
| Manufacturer Part Number | C2921-VSEC/K9 |
| Bundle | Cisco 2921 Voice Sec. Bundle, PVDM3-32, UC and SEC License PAK |
| Product Type | Router |
| Form Factor | External - modular - 2U |
| Dimensions (WxDxH) | 47 cm x 43.8 cm x 8.9 cm |
| Weight | 13.2 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 | 32 |
| Features | Firewall protection, VPN support, MPLS support, Syslog support, content filtering, 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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