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## Overview

The Cisco 3945 router, modular Services Performance Engine (SPE) 150, which can be upgraded for even higher performance as next-generation WAN environments evolve. CISCO3945-V/K9 includes Voice bundle. This bundle provides PVDM3-64 and UC License PAK.

### Quick Specs

Table 1 shows the Quick Specs of the CISCO3945-V/K9.

Product Code	CISCO3945-V/K9
Bundle	Cisco 3945 Voice Bundle, PVDM3-64, UC 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
Expansion Slot(s)	4 service module slots 1 Internal Services Module slot 4 onboard digital signal processor (DSP) slots 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
Package Weight	21.84 Kg

### Product Details

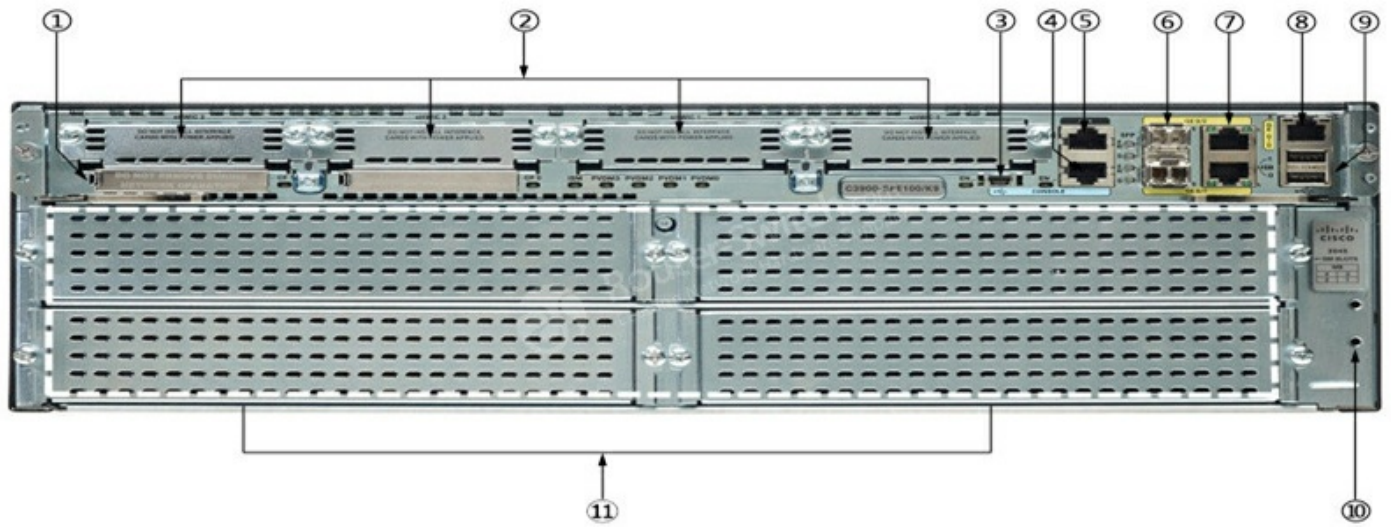
Figure 1 shows the front panel of the CISCO3945-V/K9.



Note:

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

Figure 2 shows the back panel of the Cisco 3945-V router 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)		

## Modularity Features

Table 2 shows modules for this router.

Models	Description
<a href="#">C3900-SPE150/K9</a>	Cisco Services Performance Engine 150 for Cisco 3945 ISR. (It's a configured item in the CISCO3945/K9.)
<a href="#">SM-ES3G-16-P</a>	Enhanced EtherSwitch Service Module, L2/L3 switching, 16* 10/100/1000 GE ports, Enhanced POE, Cisco EnergyWise technology
<a href="#">SM-ES3G-24-P</a>	Enhanced EtherSwitch Service Module, L2/L3 switching, 24 * 10/100/1000 GE ports, Enhanced POE, Cisco EnergyWise technology
<a href="#">VVIC3-2MFT-G703</a>	Cisco Voice/WAN Card VVIC3-2MFT-G703
<a href="#">HWIC-2T</a>	2-Port Serial WAN Interface Card Cisco Router High-Speed WAN Interface card
<a href="#">EHWIC-1GE-SFP-CU</a>	Cisco 1900, 2900, 3900 Router EHWIC WAN Card EHWIC-1GE-SFP-CU
<a href="#">EHWIC-4ESG</a>	Four port 10/100/1000 Base-TX Gigabit Ethernet switch interface card for Cisco 1900 2900 3900 Routers
<a href="#">ISM-SRE-300-K9</a>	Internal Services Module (ISM) with Services Ready Engine
<a href="#">MEM-CF-256U1GB</a>	256MB to 1GB Compact Flash Upgrade for Cisco 1900,2900,3900
<a href="#">MEM-CF-256U2GB</a>	256MB to 2GB Compact Flash Upgrade for Cisco 1900,2900,3900
<a href="#">MEM-CF-256U512MB</a>	256MB to 512MB CF Upgrade for Cisco 1900,2900,3900 ISR
<a href="#">MEM-CF-256U4GB</a>	256MB to 4GB Compact Flash Upgrade for Cisco 1900,2900,3900
<a href="#">MEMUSB-1024FT</a>	1GB USB Flash Token

## The Licenses

Table 3 shows the recommended license.

Licenses	Description

<a href="#">L-FL-39-HSEC-K9=</a>	Cisco 3900 License L-FL-39-HSEC-K9 U.S. Export Restriction Compliance license for 3900 series
<a href="#">L-FL-39-SNA=</a>	Cisco 3900 Router License - FL-39-SNA= SNA E-Delivery License for Cisco 3925/3945 for Cisco 3900 Series
<a href="#">L-SL-39-APP-K9=</a>	Cisco Application Experience License ISR 3900 series - includes licenses for: AppX, DATA and WAASX.

## Compare to Similar Routers

Table 4 shows the comparison of CISCO3945-V/K9 and CISCO3945/K9.

Model	CISCO3945-V/K9	CISCO3945/k9
Bundle	Voice Bundle	None
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 CISCO3945-V/K9 router?

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## Specification

CISCO3945-V/K9 Specifications	
Device Type	Router
Form Factor	Desktop - modular - 3U
Connectivity Technology	Wired
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Routing Protocol	OSPF, IS-IS, BGP, EIGRP, DVMRP, PIM-SM, IGMPv3, GRE, PIM-SSM, static IPv4 routing, static IPv6 routing
Remote Management Protocol	SNMP, RMON
Features	Firewall protection, VPN support, MPLS support, Syslog support, IPv6 support, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED)
Compliant Standards	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)

<b>LED Status Lights Indicators</b>	Link activity, power
<b>Communications</b>	
<b>Type</b>	Voice / fax module
<b>Digital Ports Qty</b>	64
<b>IP Telephony</b>	
<b>Voice Codexs</b>	G.711, G.722, G.723.1, G.728, G.729, G.729a, G.729ab, G.726
<b>Connectivity Slots</b>	
<b>Router Interfaces</b>	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 USB : 2 x 4 PIN USB Type A 2 x SFP (mini-GBIC)
<b>Expansion Slots Total (Free)</b>	4 ( 4 ) x HWIC 3 ( 2 ) x PVDM 2 ( 1 ) x CompactFlash Card 1 ( 1 ) x Expansion Slot
<b>Power Supply</b>	
<b>Power Device</b>	Power supply - internal
<b>Voltage Required</b>	AC 120/230 V ( 50/60 Hz )
<b>Dimensions / Weight / Miscellaneous</b>	
<b>Width</b>	47.6 cm
<b>Depth</b>	43.8 cm
<b>Height</b>	8.9 cm
<b>Weight</b>	17.7 kg
<b>Compliant Standards</b>	CISPR 22 Class A, CISPR 24, EN55024, EN55022 Class A, EN50082-1, CAN/CSA-E60065-00, ICES-003 Class A, CS-03, AS/NZS 3548, FCC CFR47 Part 15, EN300-386, UL 60950-1, IEC 60950-1, EN 60950-1, CSA C22.2 No. 60065, BSMI CNS 13438
<b>System Software</b>	
<b>Software Included</b>	Cisco IOS Unified Communications

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