

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.

Quick Specs

Figure 1 shows the appearance of the CISCO3945/K9.



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

Product Code	CISCO3945/K9
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 2 shows the front panel of the Cisco 3945 router.



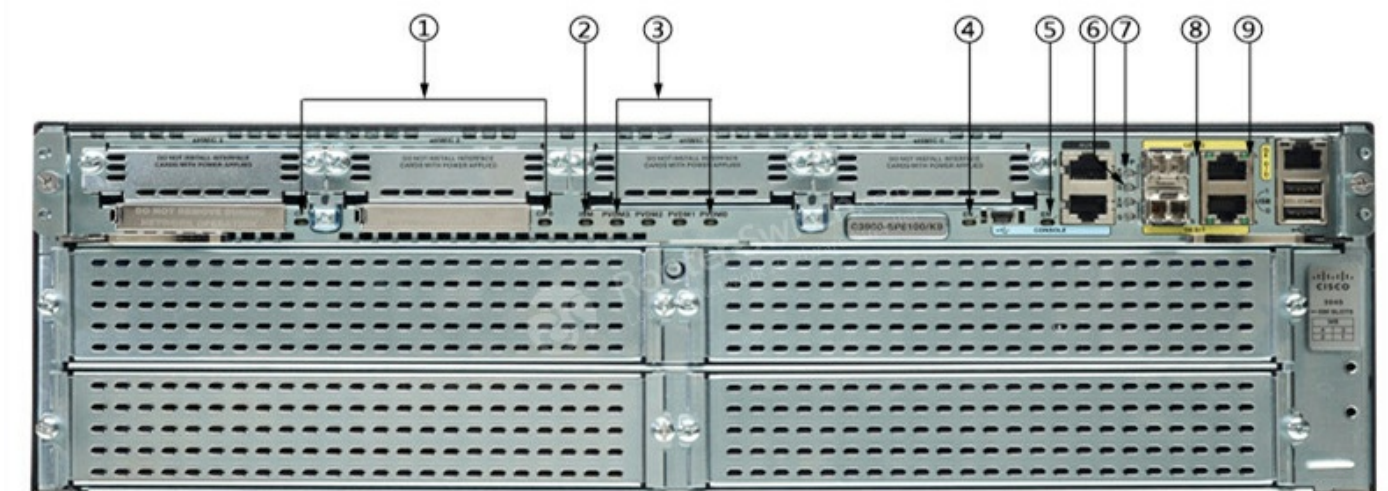
Note:

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

**Table 2 shows the LEDs area description.**

LED	Description	
SYS status LED	Solid green	Solid green indicates normal operation.
	Blinking green	System is booting or is in ROM monitor mode.
	Amber	System error.
	Off	Power is off or system board is faulty.
ACT status LED	Solid or blinking green	Solid or blinking indicates packet activity between the forwarding and routing engine and any I/O port.
	Off	No packet transfers are occurring.
POE	Green	IP phone power is on.
	Amber	IP phone power is not on.
PS1 / PS2	Green	System is running.
	Amber	System is not running.

**Figure 3 shows the back panel of the Cisco router 3945/K9 with LEDs.**



Note:

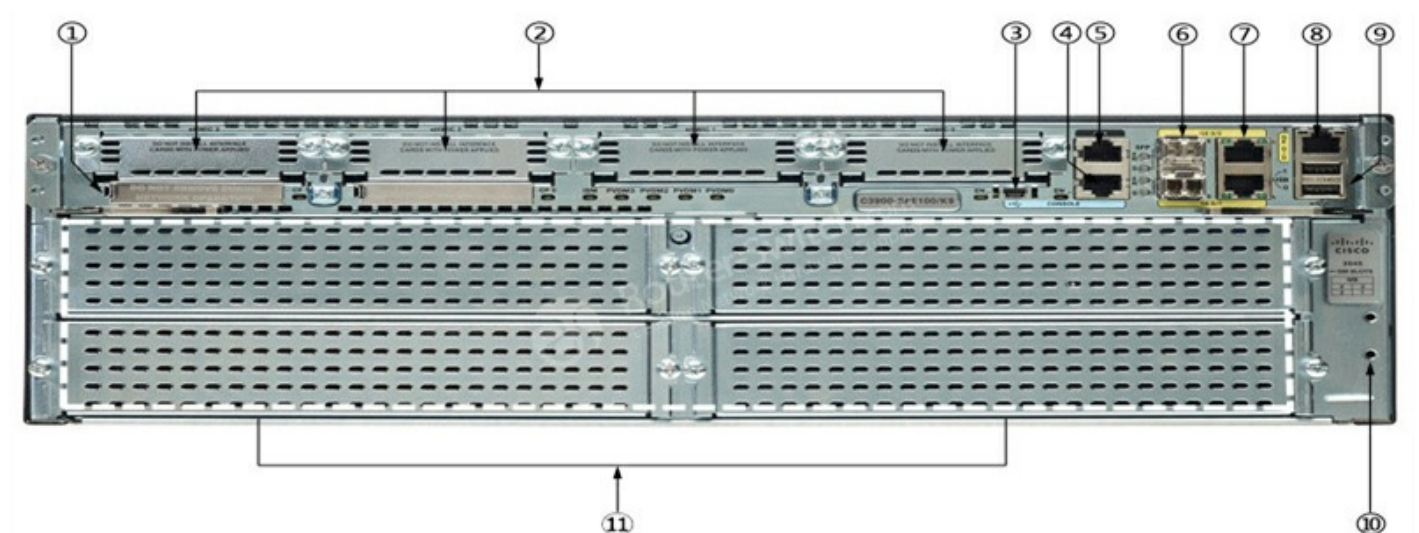
(1) Compact flash 0 and 1 (0, right) (2) ISM (3) PVD3 0,1,2 and 3 (0, far right) (4) EN (Enable USB console)

(5) EN (Enable RJ-45 console)(6) SFP S (7) SFP EN (8) S (Speed) (9) L (Link)

Table 3 shows the description of these LEDs on the back panel.

LED	Color	Description	Location
CompactFlash 1	Green	Flash memory is busy.	Back Panel
	Amber	Initialized with error.	
	Blinking Green then turns off	CompactFlash is ready for removal.	
CompactFlash 0	Green	Flash memory is busy.	Back Panel
	Amber	Initialized with error.	
	Blinking Green then turns off	CompactFlash is ready for removal.	
S (Speed)	1 blink + pause	GE port operating at 10 Mb/s.	Back Panel
	2 blink + pause	GE port operating at 100 Mb/s.	
	3 blink + pause	GE port operating at 1000 Mb/s.	
L (Link)	Green	GE link is established.	Back Panel
	Off	No GE link is established.	
EN (RJ-45 console port)	Green	The RJ-45 console port is active.	Back Panel
EN (USB serial console port)	Green	The USB console port is active.	Back Panel
ISM	Green	Initialized.	Back Panel
	Amber	Initialized with error.	
	Off	Not installed.	
PVDM3 0,1,2 and 3	Green	PVDM is initialized.	Back Panel
	Amber	PVDM is detected but not initialized.	
	Off	No PVDM installed.	
SFP S	Blinking green	Blinking frequency indicates port speed.	Back Panel
SFP EN	Off	Not present.	Back Panel
	Green	Present and enabled.	
	Amber	Present with failure.	

Figure 4 shows the back panel of the Cisco 3945 router with slots and ports.



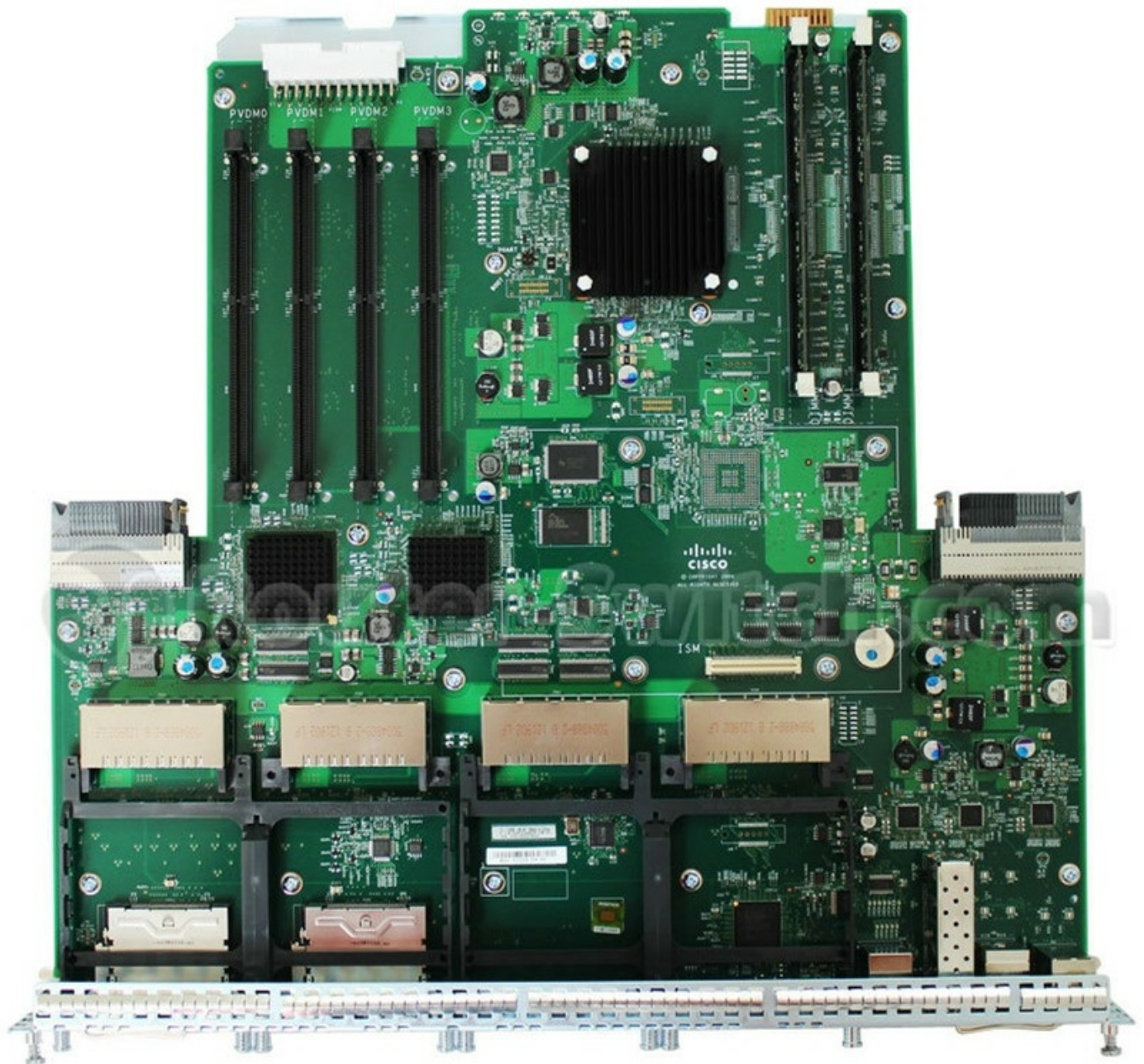
(1) Compact flash 0 and 1 (0, right) (2) EHWIC 0,1,2 and 3 (0, far right) (3)USB serial port (4)RJ-45 serial console port (5)AUX port (6) SFP 1 and SFP 2 (2, top)

(7) 10/100/1000 Ethernet port GE 0/1 and GE 0/2 (GE 0/1, down) (8) 10/100/1000 Ethernet port GE 0/0 (9) USB 0 and USB 1 (1,top) (10) Ground (11) Service module slots

The Cisco 3900 Series offers field-replaceable SPEs which allow you to protect your initial investment in the Cisco 3900 platform for a longer time period and scale router performance as your network and branch-office needs grow.







Note:

The Cisco 3945 router supports two memory slots which has been installed two 512MB memory cards. When upgrading the memory, the same capacity of memory cards must be inserted into the two memory slots in the same time. It doesn't support to use only a single memory slot.

## Modules and Licenses

Table 4 shows modules and licenses 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

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
Licenses	Description
L-FL-39-HSEC-K9=	Cisco 3900 License L-FL-39-HSEC-K9 U.S. Export Restriction Compliance license for 3900 series
L-FL-39-SNA=	Cisco 3900 Router License - FL-39-SNA= SNA E-Delivery License for Cisco 3925/3945 for Cisco 3900 Series
L-SL-39-APP-K9=	Cisco Application Experience License ISR 3900 series - includes licenses for: AppX, DATA and WAASX.
L-SL-39-SEC-K9=	Cisco 3900 License L-SL-39-SEC-K9 Security E-Delivery PAK for Cisco 3900 Series
L-SL-39-UC-K9=	Cisco 3900 License L-SL-39-UC-K9 Unified Communication E-Delivery PAK for Cisco 3900 Series

Get more information

Do you have any question about the Cisco 3945/K9 router?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

Specification

CISCO3945/K9 Specification	
General	
Manufacturer	Cisco Systems, Inc
Manufacturer Part Number	CISCO3945/K9
Product Type	Router
Form Factor	Desktop - modular - 3U
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 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
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 ( 4 ) x PVDM 2 ( 1 ) x CompactFlash Card 1 ( 1 ) x Expansion Slot 4 ( 4 ) x service module (SM)
Power Supply	
Power Device	Power supply - internal
Voltage Required	AC 120/230 V ( 47/63 Hz )
Dimensions / Weight / Miscellaneous	
Width	47.6 cm ( 18.74 in)
Depth	43.8 cm ( 17.24 in)
Height	13.3 cm (5.24 in)
Package Weight	21.84 kg ( 48.15 lbs)
Weight	17.7 kg ( 39.02 lbs)
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 IP Base

## Download Resource

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### Support and Resources

 [Cisco Router 3900 Series Datasheet](#)

 [Cisco ISR 4451-X vs. ISR 3900 vs. ISR 2900 vs. ISR 1900](#)

### Transition Guide

 [Guide to Upgrade Your ISR G1 and ISR G2 Routers to ISR 4000](#)

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