

Overview

The Cisco 2911 router, supporting voice module, is designed for medium-sized branch.

Quick Specs

Figure 1 shows the product appearance of Cisco 2911/K9.

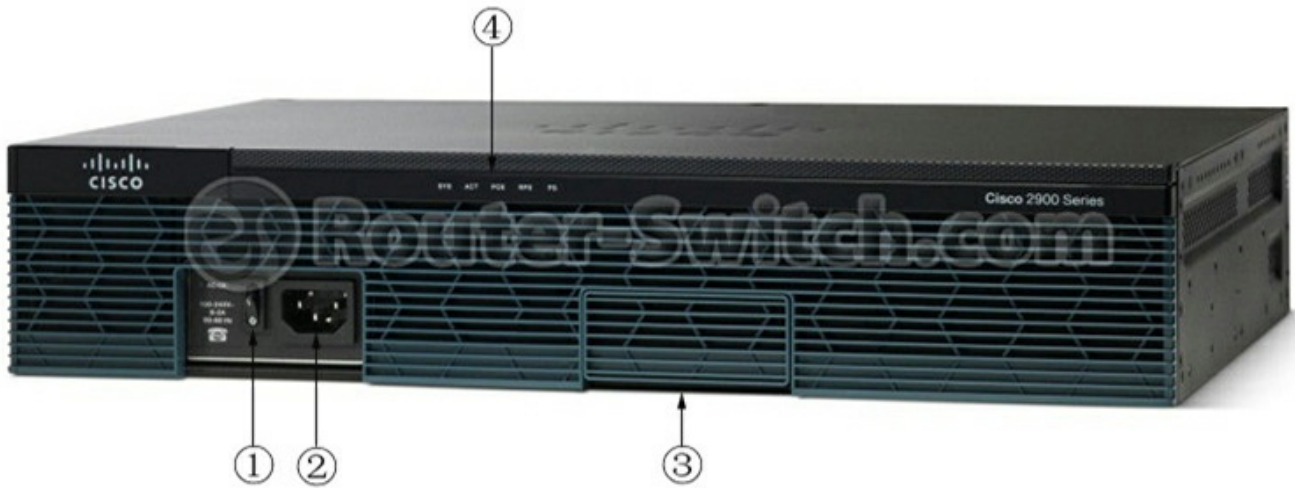


Table 1 shows the Quick Specs of the Cisco 2911/K9.

Product Code	Cisco 2911/K9
Rack Units	2RU
Interfaces	3 integrated 10/100/1000 Ethernet ports (RJ-45 only)
Expansion Slot(s)	1 service module slot 1 Internal Service Module slot 2 onboard digital signal processor (DSP) slots 4 enhanced high-speed WAN interface card slots
RAM	512 MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
Dimensions	43.8 cm x 30.5 cm x 8.9 cm
Package Weight	16.15 Kg

Product Details

Figure 2 shows the front panel of CISCO2911/K9.



Note:

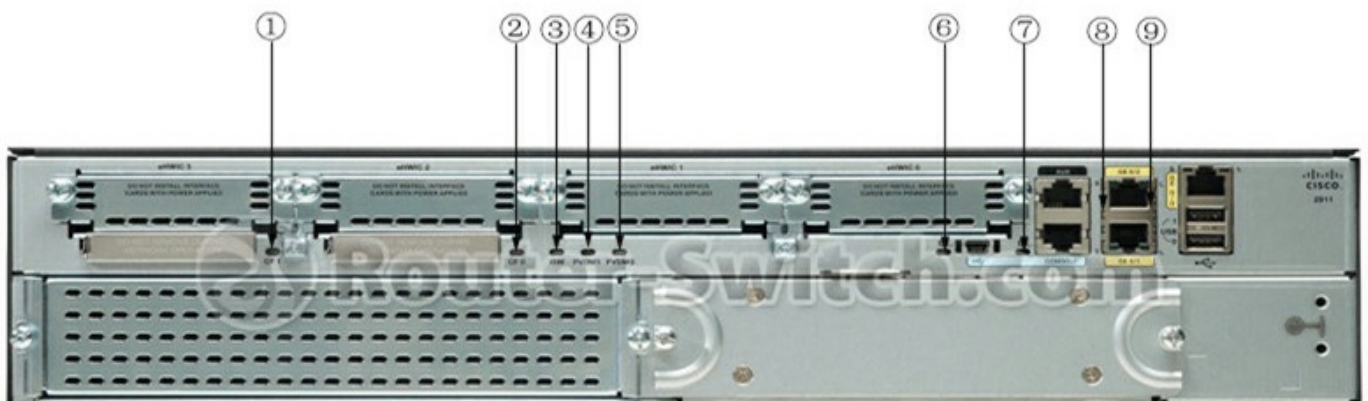
(1) On/Off switch (2) AC power connector (3) Optional RPS adapter (blank panel shown) (4) LEDs area

*The switch and power connector of the 2911 is on the front bezel, below the LEDs. Furthermore, this router provides an optional Redundant Power System (RPS) adapter.

Table 2 shows the LEDs area description

LED	Color	Description
SYS	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	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	PoE is available.
	Amber	Power supply is not supplying PoE power.
RPS	Green	System is running on external RPS power supply.
PS	Green	System is running.
	Amber	System is not running.

Figure 3 shows some LEDs on the back panel of the Cisco 2911 router.



Note:

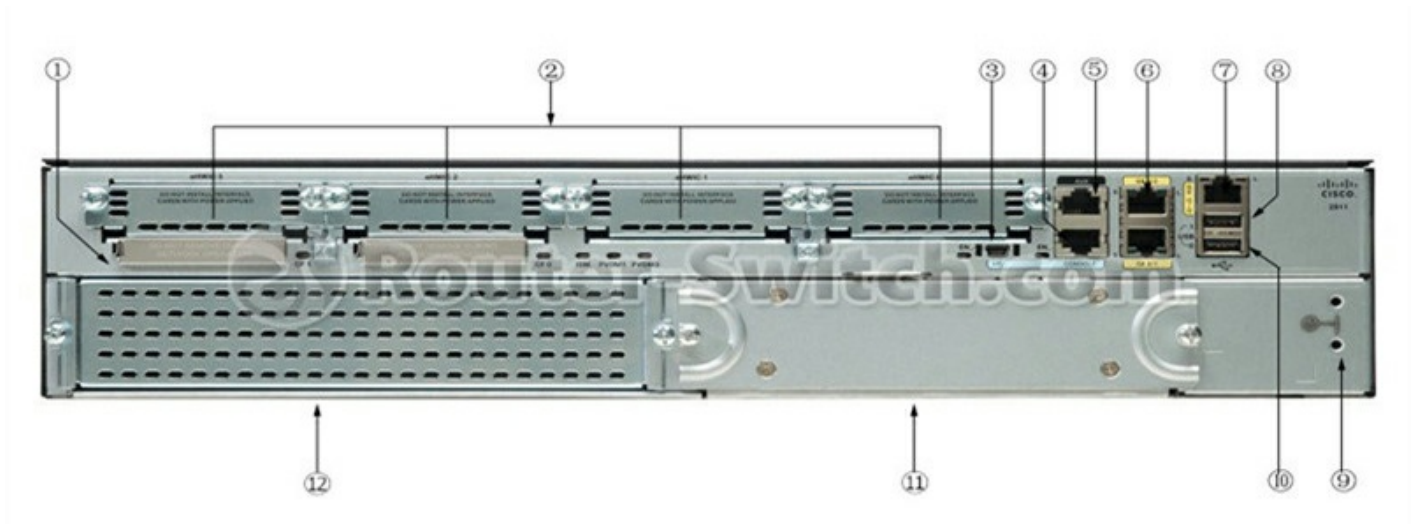
(1) Compact flash 1 (2) Compact flash 0 (3) ISM (4) PVDM3 1 (5) PVDM3 0 (6) EN (Enable USB console) (7) EN (Enable Rj-45 console) (8) S (Speed) (9) L (Link)

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 10Mb/s.	Back Panel
	2 blink + pause	GE port operating at 100Mb/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, and 1	Green	PVDM is initialized.	Back Panel
	Amber	PVDM is detected but not initialized.	
	Off	No PVDM installed.	

Figure 4 show the expansion slots and ports on the back panel.

The Cisco 2911/K9 supports expansion functions with modules and cards.



Note:

(1) Compact flash 0 and 1 (0, right) (2) EHWIC 0,1,2 and 3 (0, far right) (3) USB serial port (4) Console

port (5) AUX

(6) 10/100/1000 Ethernet port GE 0/1 and GE 0/2 (0/1, down) (7) 10/100/1000 Ethernet port GE 0/0 (8) USB 1 (9) Ground connector (10) USB 0

(11) AC or DC or AC-POE Power module

(12) Service module slot 1

Figure 5 shows the unboxing view of CISCO2911/K9.



Cards and Licenses

Table 4 shows some recommended models for this router.

Cards	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
VVIC3-2MFT-G703	Cisco Voice/WAN Card VVIC3-2MFT-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
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-SL-29-SEC-K9=	Cisco 2900 License L-SL-29-SEC-K9 Security E-Delivery PAK for Cisco 2901-2951
L-SL-29-APP-K9	Cisco Application Experience License ISR 2900 Series - includes licenses for: AppX, DATA and WAASX
L-SL-29-SECNPE-K9	Cisco 2900 License L-SL-29-SECNPE-K9 SEC No Payload Encryption E PAK for Cisco 2901-2951
L-SL-29-UC-K9	Cisco 2900 License L-SL-29-UC-K9= Unified Communication E-Delivery PAK for Cisco 2901-2951

Support and Resources

 [\[PDF\] Cisco 2900 Series Router Datasheet](#)

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

Transition Guide

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

Get more information

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Specification

CISCO2911/K9 Specification	
General	
Device Type	Router
Enclosure Type	Rack-mountable - modular - 2U
Connectivity Technology	Wired
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Network / Transport Protocol	IPSec, L2TPv3
Routing Protocol	OSPF, IS-IS, BGP, EIGRP, DVMRP, PIM-SM, static IP routing, IGMPv3, GRE, PIM-SSM, static IPv4 routing, static IPv6 routing, policy-based routing (PBR), MPLS, Bidirectional Forwarding Detection (BFD), IPv4-to-IPv6 Multicast
Remote Management Protocol	SNMP, RMON, TR-069
Features	Firewall protection, VPN support, MPLS support, Syslog support, IPv6 support, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Web Services Management Agent (WSMA), NetFlow
Compliant Standards	IEEE 802.3, IEEE 802.1Q, IEEE 802.3af, IEEE 802.3ah, IEEE 802.1ah, IEEE 802.1ag, ANSI T1.101, ITU-T G.823, ITU-T G.824
RAM	512 MB (installed) / 2 GB (max)

Flash Memory	256 MB (installed) / 8 GB (max)
Status Indicators	Link activity, power
Expansion and Connectivity	
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 ; USB : 2 x 4 pin USB Type A
Expansion Slot(s)	4 (total) / 4 (free) x EHWIC ; 2 (total) / 1 (free) x CompactFlash Card ; 1 (total) / 1 (free) x expansion slot ; 1 (total) / 1 (free) x service module (SM) ; 2 (total) / 2 (free) x PVDM
Power	
Power Device	Power supply - internal
Voltage Required	AC 120/230 V (50/60 Hz)
Miscellaneous	
Dimensions (W x D x H)	17.2 x 12 x 3.5 in (43.8 x 30.5 x 8.9 cm)
Package Weight	35.6 lbs (16.15 Kg)
Weight	18.1 lbs (8.21 Kg)
Rack Mounting Kit	N/A
Compliant Standards	CISPR 22 Class A, CISPR 24, EN55024, EN55022 Class A, EN50082-1, AS/NZS 60950-1, ICES-003 Class A, CS-03, R&TTE, FCC CFR47 Part 15, EN300-386, UL 60950-1, IEC 60950-1, EN 60950-1, BSMI CNS 13438, AS/NZS 3548 Class A, CAN/CSA C22.2 No. 60950-1, VCCI V-3, EN 61000, TIA/EIA/IS-968
Software / System Requirements	
OS Provided	Cisco IOS IP Base
Manufacturer Warranty	
Service & Support	90 days warranty
Service & Support Details	Limited warranty - 90 days
Environmental Parameters	
Min Operating Temperature	32 °F
Max Operating Temperature	104 °F
Humidity Range Operating	5 - 85%

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