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## Overview

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The Cisco 2901 router, supporting voice module, is designed for small offices.

### Quick Specs

Figure 1 shows the appearance of the CISCO2901/k9.



Table 1 shows the Quick Specs of the CISCO2901/k9.

<b>Product Code</b>	CISCO2901/k9
<b>Rack Units</b>	1U
<b>Interfaces</b>	2 integrated 10/100/1000 Ethernet ports
<b>Expansion Slot(s)</b>	2 onboard digital signal processor (DSP) slots 4 enhanced high-speed WAN interface card slots 1 onboard Internal Service Module for application services
<b>RAM</b>	512 MB (installed) / 2 GB (max)
<b>Flash Memory</b>	256 MB (installed) / 8 GB (max)
<b>Dimensions</b>	43.9 cm x 43.8 cm x 4.5 cm
<b>Package Weight</b>	11.48 Kg

### Product Details

Figure 2 shows the front panel of the Cisco 2901 router with ports and LEDs.



Note:

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

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.

Figure 3 shows the back panel of the Cisco 2901 router with LEDs.



Note

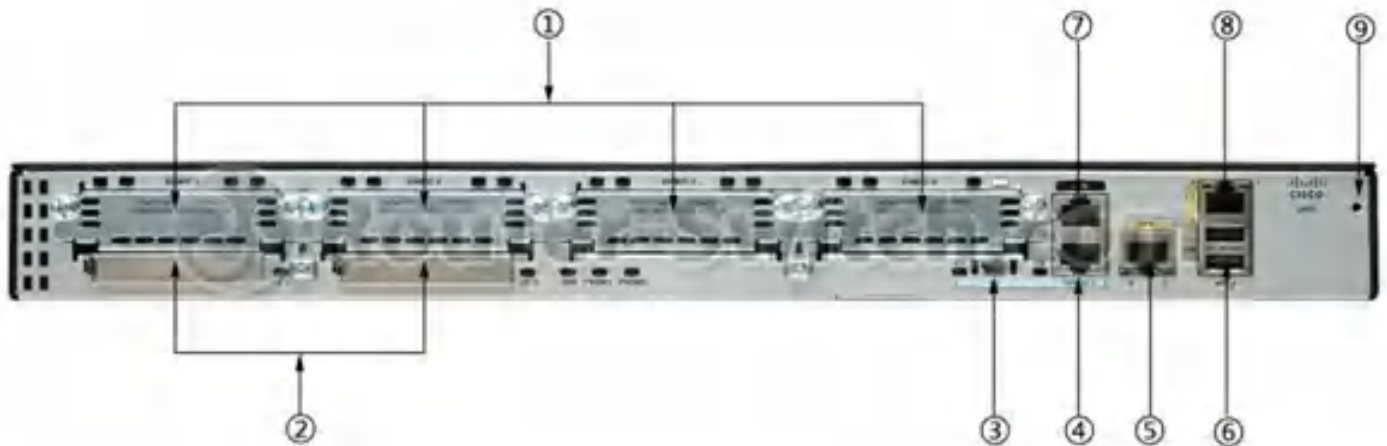
(1) Compact flash 0 and 1 (0, right) (2) ISM (3) PVD3 0 and 1 (0, right) (4) EN (Enable USB console) (5) EN (Enable RJ-45 console) (6) S (Speed) (7) L (Link)

Table 3 shows some LEDs description.

LED	Color	Description	Location
	Green	Flash memory is busy.	

CompactFlash 1	Amber	Initialized with error.	Back Panel
	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.	
PVDM 0, and 1	Green	PVDM is initialized.	Back Panel
	Amber	PVDM is detected but not initialized.	
	Off	No PVDM installed.	

Figure 4 shows the back panel of the Cisco 2901 router with slots and ports.



Note:

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

Figure 5 shows the unboxing view of CISCO2901/K9.



## Cards and Licenses

Table 4 shows some recommended models for this router.

Cards	Description
<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 vb 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="#">PVDM3-16</a>	16-channel high-density voice DSP module
<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
Licenses	Description
<a href="#">L-SL-29-SEC-K9=</a>	Cisco 2900 License L-SL-29-SEC-K9 Security E-Delivery PAK for Cisco 2901-2951

<a href="#">L-SL-29-APP-K9=</a>	Cisco Application Experience License ISR 2900 Series - includes licenses for: AppX, DATA and WAASX
<a href="#">L-SL-29-SECNPE-K9=</a>	Cisco 2900 License L-SL-29-SECNPE-K9 SEC No Payload Encryption E PAK for Cisco 2901-2951
<a href="#">L-SL-29-UC-K9=</a>	Cisco 2900 License L-SL-29-UC-K9= Unified Communication E-Delivery PAK for Cisco 2901-2951

## Get more information

Do you have any question about the Cisco 2901 router?

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## Specification

CISCO2901/K9 Specification	
<b>General</b>	
Device Type	Router
Enclosure Type	Rack-mountable - modular - 1U
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
<b>Expansion and Connectivity</b>	
Interfaces	2 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) / 2 (free) x PVDM   2 (total) / 1 (free) x CompactFlash Card   1 (total) / 1 (free) x ISM
<b>Power</b>	
Power Device	Power supply - internal
Voltage Required	AC 120/230 V ( 50/60 Hz )
<b>Miscellaneous</b>	
Dimensions (W x D x H)	17.2 x 17.3 x 1.8 in (43.9 x 43.8 x 4.5 cm)
Package Weight	25.09 lbs (11.48 Kg)

Weight	13.4 lbs (6.08 Kg)
Rack Mounting Kit	Included
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
<b>Software / System Requirements</b>	
OS Provided	Cisco IOS IP Base
<b>Manufacturer Warranty</b>	
Service & Support	90 days warranty
Service & Support Details	Limited warranty - 90 days
<b>Environmental Parameters</b>	
Min Operating Temperature	32 °F
Max Operating Temperature	104 °F
Humidity Range Operating	10 - 85%

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