CISCO1941/K9 Datasheet

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Overview

The Cisco 1941 Router, modular router, is designed for branch offices.

Quick Specs

Figure 1 shows the front view of Cisco Router 1941/K9.

Table 1 shows the Quick Specs of the CISCO1941/K9.

Product Code	CISCO1941/K9
Rack Units	2 RU
Interfaces	2 integrated 10/100/1000 Ethernet ports: GE0/0&GE0/1
Expansion Slot(s)	2 enhanced High-Speed WAN Interface Card slots 1 Internal Services Module slot
RAM	512 MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 8 GB (max)
Dimensions	34.3 cm x 29.2 cm x 8.9 cm
Package Weight	10.48 Kg

Product Details

Figure 2 shows the statue LEDs, on the front panel of the 1941/K9, including three statues: SYS, ACT and PoE.
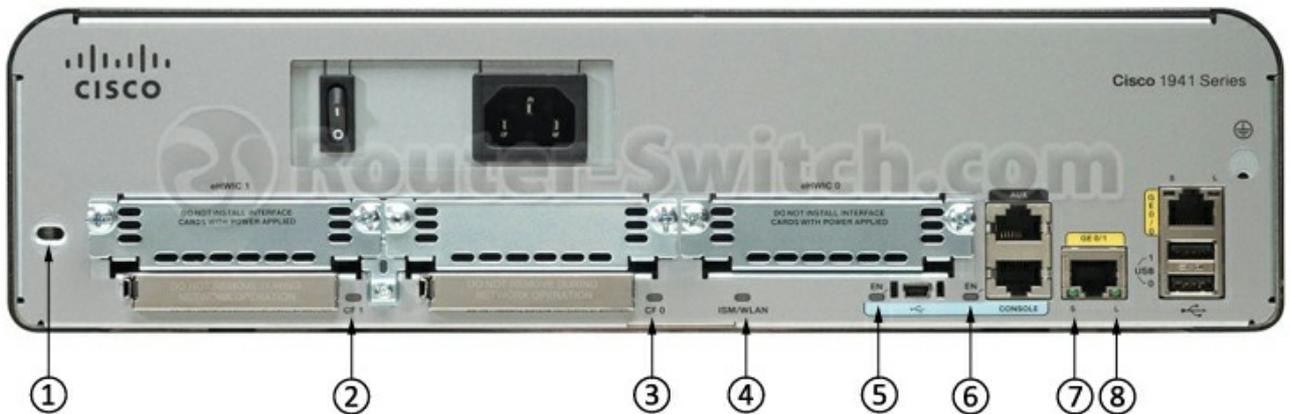
LED area

Table 2 shows the front panel 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 when any packets are transmitted or received on any WAN or LAN, or when monitoring system activity.
PoE	Green	PoE is available.
	Amber	Power supply is not supplying PoE power.

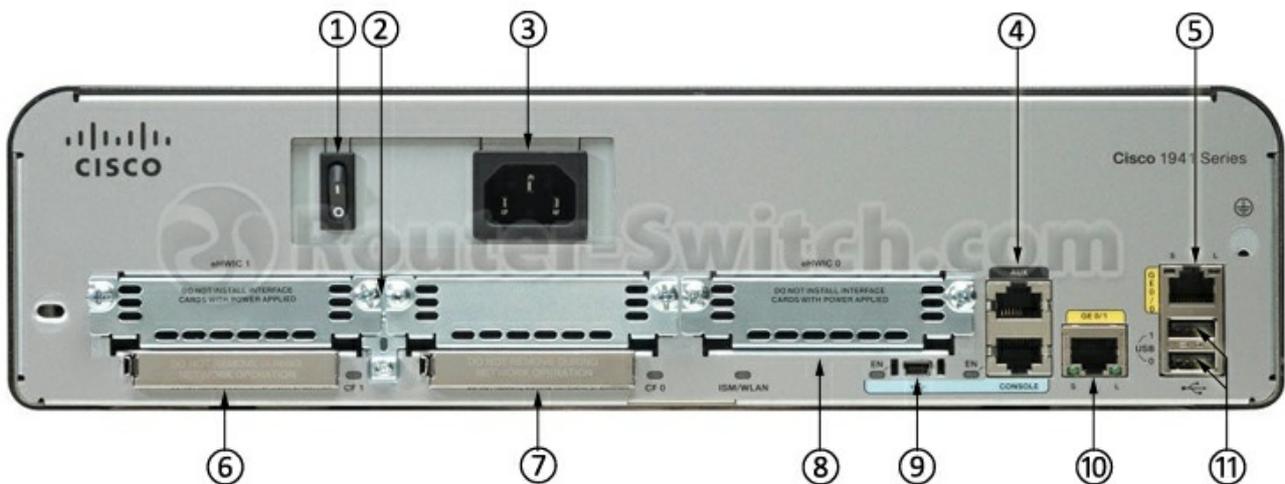Figure 3 shows the back panel of this router with LEDs.

Note:

(1)	Kensington security slot	(5)	EN (Enable USB console)
(2)	CF 1	(6)	EN (Enable RJ-45 console)
(3)	CF 0	(7)	S (Speed)
(4)	ISM or WLAN	(8)	L (Link)

Table 3 shows the back panel LEDs area description.

LED	Color	Description	Location

CF 1	Green	Flash memory is busy.	Back Panel
	Amber	Initialized with error.	
	Blinking Green then turns off	CompactFlash is ready for removal.	
CF 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

Figure 4 shows the ports and slots on the back panel of Cisco 1941/K9.

Note:

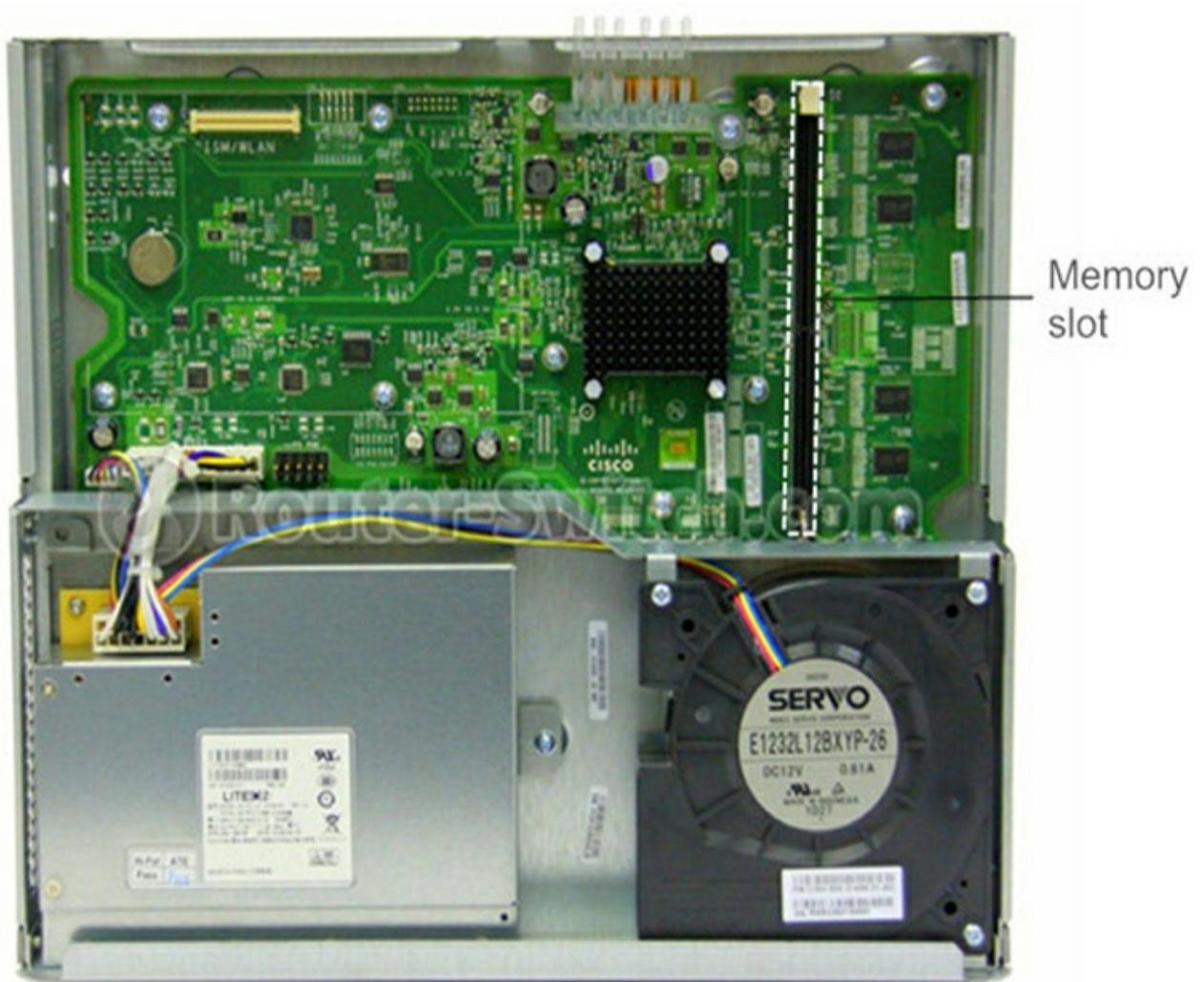|				
(1)	On/Off switch	(7)	Compact flash 2
(2)	HWIC slot 1	(8)	HWIC slot 2
(3)	Input power connector	(9)	USB serial port
(4)	AUX port	(10)	GE 0/1
(5)	GE 0/0	(11)	USB ports
(6)	Compact flash 1		

·Cisco 1941/K9 supports 2 integrated EHWIC slots for flexible configurations. It supports two modules: 1 double wide HWIC-D or single wide EHWIC/HWIC module or a 2nd single wide E-HIC/HWIC module.

·2 high-speed USB 2.0 ports enable another mechanism secure token capabilities and storage.

·The 1941 has 2 external Compact Flash slots supporting to extend up to 8GB.

Figure 5 shows the internal view of the Cisco 1941.

There is a blank Memory slot inside the device, supporting to extend memory.

Memory slot

Modularity Features

The Cisco 1941 provides significantly enhanced modular capabilities offering investment protection for customers.

Table 4 shows interfaces and modules for this router.

Models	Description
ISM-SRE-300-K9	Internal Services Module (ISM) with Services Ready Engine
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
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
HWIC-2FE	HWIC two routed port Cisco Router High-Speed WAN Interface card
HWIC-1T	1-Port Serial WAN Interface Card Cisco Router High-Speed WAN Interface card
HWIC-2T	2-Port Serial WAN Interface Card Cisco Router High-Speed WAN Interface card
VWIC3-1MFT-T1/E1	Cisco Voice/WAN Card VWIC3-1MFT-T1/E1
VWIC3-2MFT-T1/E1	Cisco Voice/WAN Card VWIC3-2MFT-T1/E1
VWIC3-1MFT-G703	Cisco Voice&WAN T1/E1 interface moudle VWIC3-1MFT-G703

VWIC3-2MFT-G703	Cisco Voice/WAN Card VWIC3-2MFT-G703

The Licenses

The Cisco 1941/K9 router supports IOS Technology Package Licenses.

Table 5 shows the models of these licenses.

Licenses	Description
L-SL-19-DATA-K9	Cisco 1900 IOS License L-SL-19-DATA-K9= Data E-Delivery PAK for Cisco 1900
L-SL-19-SEC-K9	Security License for Cisco 1900
L-SL-19-APP-K9	AppX License with; DATA and WAAS for Cisco 1900 Series

Compare to Similar Routers

Table 6 shows the comparison between Cisco 1921 router and 1941 router.

Model	CISCO1921/K9	CISCO1941/K9
Interface	w/2 GE	2 GE
EHWIC slot	2	2
ISM Slot	0	1
Memory	512 MB (installed) / 512 MB (max)	512 MB (installed) / 2 GB (max)
Flash Memory	256 MB (installed) / 256 MB (max)	256 MB (installed) / 8 GB (max)
Rack Unit	1U	2U

Get more information

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Specification

CISCO1941/K9 Specification	
Main Specs	
Manufacturer	Cisco Systems, Inc
Manufacturer Part Number	CISCO1941/K9
Product Type	Router
Form Factor	External - modular - 2U
Dimensions (WxDxH)	34.3 cm x 29.2 cm x 8.9 cm
Weight	5.8 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
Features	Cisco IOS IP Base , firewall protection, VPN support, MPLS support, Syslog support, IPv6 support, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED)
Compliant Standards	IEEE 802.3ah, IEEE 802.1ah, IEEE 802.1ag
Power	AC 120/230 V (50/60 Hz
Services and Slot Density	
Embedded hardware-based crypto acceleration (IPSec + SSL)	Yes
Total Onboard LAN 10/100/1000	2
RJ-45-Based Ports	2
SFP-Based Ports	0
SM Slots	0
Double-Wide SM Slots	0
EHWIC Slots	2
Double-Wide EHWIC slots (use of a double-wide EHWIC slot will consume two EHWIC slots)	1
ISM Slots	1 (0 on the Cisco 1941W)
Memory (DDR2 Error Correction Code [ECC] ECC DRAM) - Default	512 MB
Memory (DDR2 ECC DRAM) - Maximum	2.0 GB
Compact Flash (external) - Default	slot 0: 256 MB slot 1: none
Compact Flash (external) - Maximum	slot 0: 4 GB slot 1: 4 GB
External USB flash memory slots (Type A)	2
USB Console Port (Type B) (up to 115.2 kbps)	1
Serial Console Port (up to 115.2 kbps)	1
Serial Auxiliary Port (up to 115.2 kbps	1
Power Supply Options	AC, POE
Redundant Power Supply Support	No
Power Specifications	
AC Input Voltage	100-240 V ~
AC Input Frequency	47-63 Hz
AC Input Current range AC Power Supply (Max) (Amps)	1.5-0.6
AC Input Surge Current	<50 A
Typical Power (No Modules)	35 W

Maximum Power capacity with AC power supply	110 W
Maximum Power capacity with PoE power supply (platform only)	110 W
Maximum PoE device power capacity with PoE power supply	80 W

Physical Specifications	
Dimensions (H x W x D)	3.5 in x 13.5 in x 11.5 in (34.3 cm x 29.2 cm x 8.9 cm)
Rack Height	2 RU
Rack-mount 19in. (48.3 cm) EIA	Included
Wall-mount (refer to installation guide for approved orientation)	Yes
Package Weight	23.1 lbs (10.48 Kg)
Weight-with AC power supply (no modules)	12 lbs(5.44 Kg)
Weight-with POE power supply (no modules)	12.8 lbs (5.8 Kg)
Maximum Weight-Fully Configured	14 lbs (6.35 Kg)
Airflow	Front to Side

Environmental Specifications	
Operating Condition	
Temperature-5906 feet (1800 m) max. altitude	0-40°C (32-104°F)
Temperature-9843 feet (3000 m) max. altitude	0-25°C (32-77°F)
Altitude	3000 m (10000 ft)
Humidity	10 to 85% RH
Acoustic: Sound Pressure (Typ/Max)	26/46 dBA
Acoustic: Sound Power (Typ/Max)	36/55 dBA

Transportation/Storage Condition	
Temperature	-40 - 70 oC (-40 - 158 oF)
Humidity	5 to 95%RH
Altitude	4570m (15000 ft)

Regulatory Compliance	
Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1 EN 60950-1 AS/NZS 60950-1 IEC 60950-1

EMC	47 CFR, Part 15 ICES-003 Class A EN55022 Class A CISPR22 Class A AS/NZS 3548 Class A VCCI V-3 CNS 13438 EN 300-386 EN 61000 (Immunity) EN 55024, CISPR 24 EN50082-1
Telecom	TIA/EIA/IS-968 CS-03 ANSI T1.101 ITU-T G.823, G.824 IEEE 802.3 RTTE Directive

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