Overview of Cisco 900 Series Integrated Services Routers

Cisco 900 Series Integrated Services Routers (ISRs) with Cisco IOS Software are high-performance devices that are easy to deploy and manage. The routers combine Internet access, comprehensive security, and wireless services (LTE Advanced 3.0, Wireless WAN and Wireless LAN).

About Cisco 900 Series Integrated Service Routers

The Cisco 900 series Integrated Services Routers are the SOHO routers that offer unmatched throughput levels. They are available in fixed form factors. The Cisco 900 series is best suited for small and midsize businesses, enterprise branches and as customer premises equipment in managed services environments.

Table 1: Base models of the Cisco 900 series ISR

Model	Switch Ports	WAN Ports	Console Ports	DSL
C921-4P	4	2	1	None
C921J-4P	4	2	1	None
C921-4PLTEGB	4	2	1	None
C921-4PLTEAU	4	2	1	None
C921-4PLTEAS	4	2	1	None
C921-4PLTENA	4	2	1	None
C926-4P	4	1	1	1
C926-4PLTEGB	4	1	1	1
C927-4P	4	1	1	1
C927-4PM	4	1	1	1

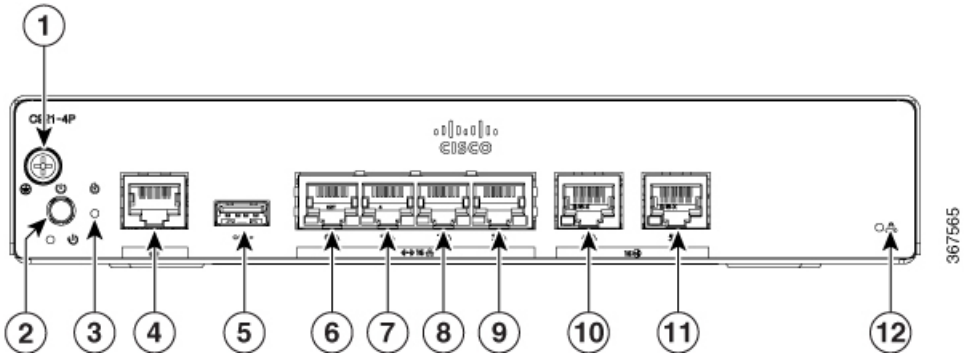
Model	Switch Ports	WAN Ports	Console Ports	DSL
C927-4PLTEGB	4	1	1	1
C927-4PMLTEGB	4	1	1	1
C927-4PLTEAU	4	1	1	1
C931-4P	4	2	1	None

For more information on the features and specifications of Cisco 900 Series Integrated Services Routers (ISRs), refer to the Cisco 900 Series Integrated Services Routers datasheet.

Chassis Views

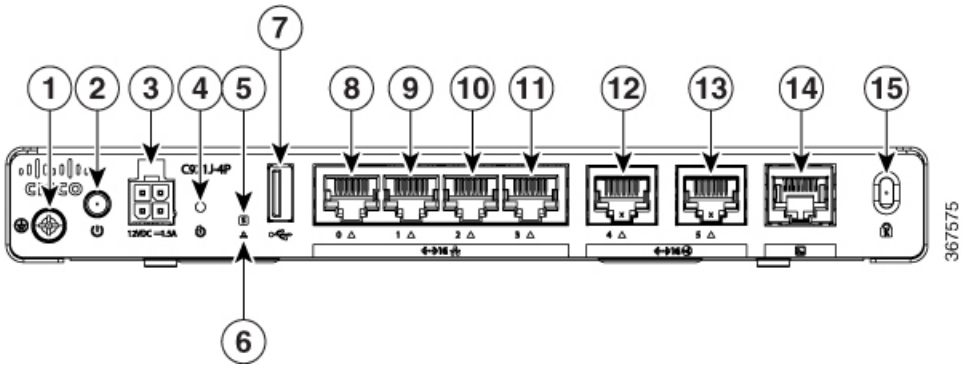
This section contains front and back panel views of the Cisco 900 Series ISR-showing locations of the power and signal interfaces, interface slots, status indicators, and chassis identification labels.

Figure 1: Cisco C921-4P- I/O View



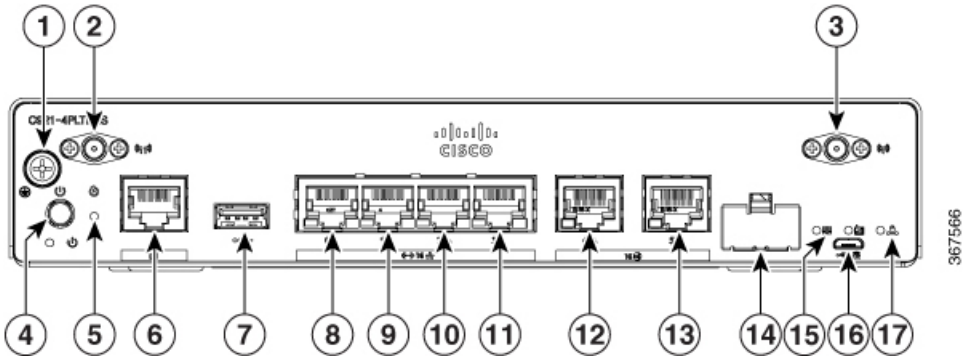
1	#6-32 Ground screw	2	Power button
3	Reset button	4	Console Port
5	USB2.0 port	6	GE LAN port
7	GE LAN port	8	GE LAN port
9	GE LAN port	10	GE WAN port
11	GE WAN port	12	VPN LED

Figure 2: Cisco C921J-4P - I/O View



1	#6-32 Ground screw	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	VPN LED
7	USB2.0 port	8	GE LAN port
9	GE LAN port	10	GE LAN port
11	GE LAN port	12	GE WAN port
13	GE WAN port	14	Console port
15	Kensington Lock		

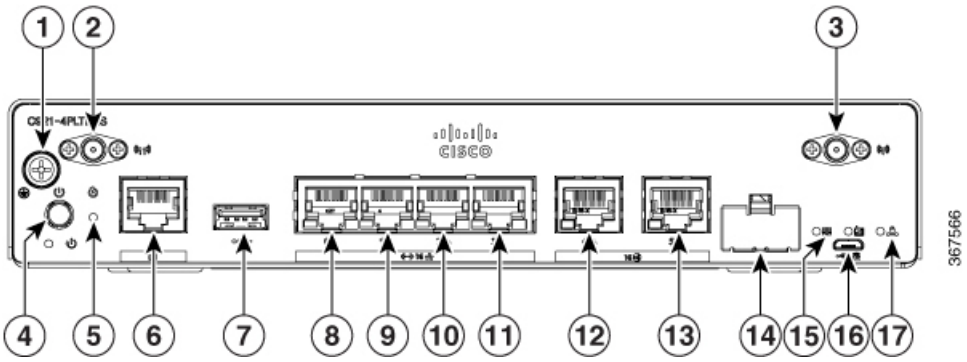
Figure 3: Cisco C921-4PLTENA- I/O View



1	#6-32 Ground screw	2	4G antenna connector—M1/DIV
3	4G antenna connector—M0/MAIN	4	Power button
5	Reset button	6	Console port
7	USB2.0 port	8	GE LAN port

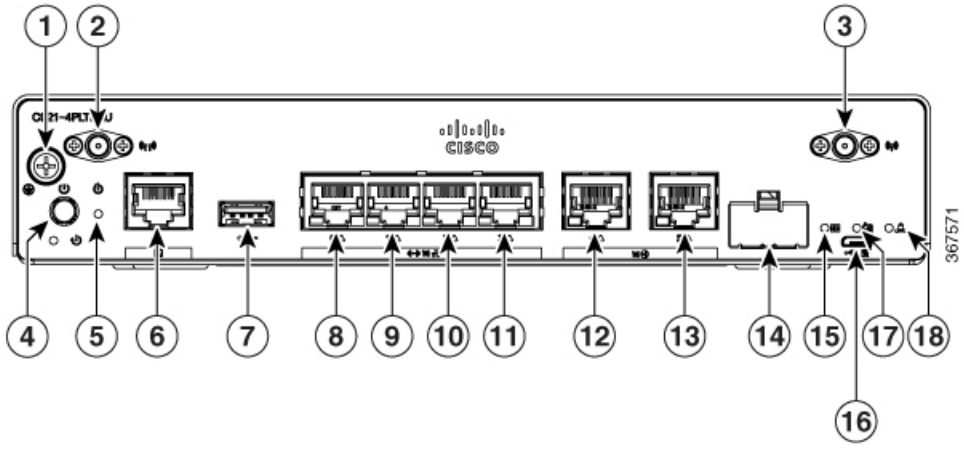
9	GE LAN port	10	GE LAN port
11	GE LAN port	12	GE WAN port
13	GE WAN port	14	Micro SIM port
15	SIM/ACT LED	16	Micro USB port
17	VPN LED		

Figure 4: Cisco C921-4PLTEAS- I/O View



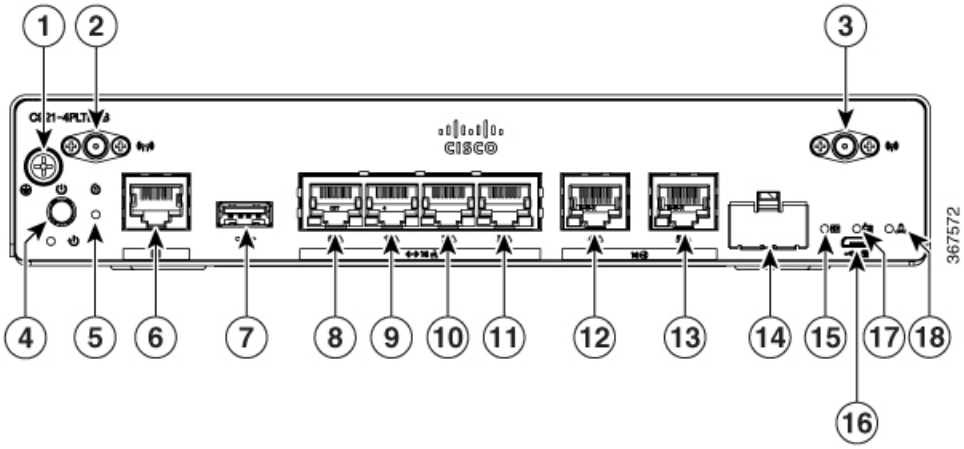
1	#6-32 Ground screw	2	4G antenna connector—M1/DIV
3	4G antenna connector—M0/MAIN	4	Power button
5	Reset button	6	Console port
7	USB2.0 port	8	GE LAN port
9	GE LAN port	10	GE LAN port
11	GE LAN port	12	GE WAN port
13	GE WAN port	14	Micro SIM port
15	SIM/ACT LED	16	Micro USB port
17	VPN LED		

Figure 5: Cisco C921-4PLTEAU - I/O View



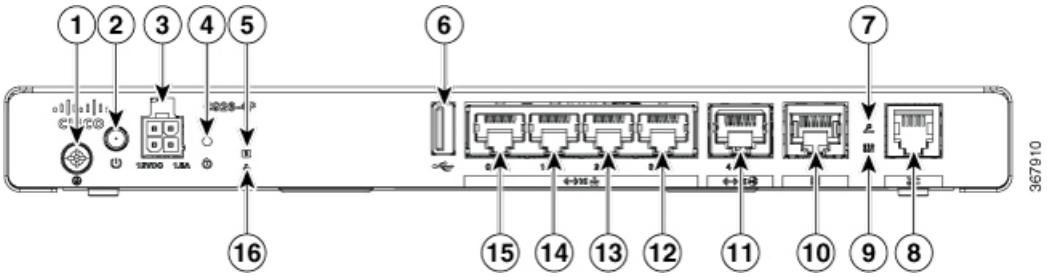
1	#6-32 Ground screw	2	4G antenna connector—M1/DIV
3	4G antenna connector—M0/MAIN	4	Power button
5	Reset button	6	Console port
7	USB2.0 port	8	GE LAN port
9	GE LAN port	10	GE LAN port
11	GE LAN port	12	GE WAN port
13	GE WAN port	14	Micro SIM slot
15	SIM/ACT LED	16	Micro USB port
17	RSSI LED	18	VPN LED

Figure 6: Cisco C921-4PLTEGB - I/O View



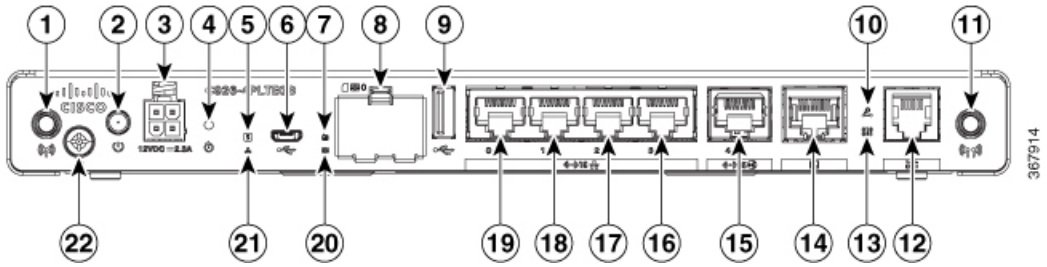
1	#6-32 Ground screw	2	4G antenna connector—M1/DIV
3	4G antenna connector—M0/MAIN	4	Power button
5	Reset button	6	Console port
7	USB2.0 port	8	GE LAN port
9	GE LAN port	10	GE LAN port
11	GE LAN port	12	GE WAN port
13	GE WAN port	14	Micro SIM slot
15	SIM/ACT LED	16	Micro USB port
17	RSSI LED	18	VPN LED

Figure 7: Cisco C926-4P- I/O View



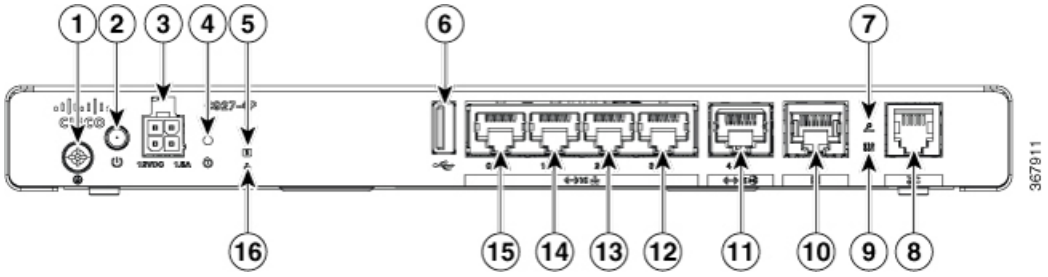
1	#6-32 Ground screw	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	USB2.0 port
7	xDSL CD LED	8	DSL port
9	xDSL DATA LED	10	Console port
11	GE WAN port	12	GE LAN port
13	GE LAN port	14	GE LAN port
15	GE LAN port	16	VPN LED

Figure 8: Cisco C926-4PLTEGB - I/O View



1	Antenna	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	Micro USB
7	RSSI LED	8	SIM card slot
9	USB2.0 port	10	xDSL CD LED
11	Antenna	12	DSL port
13	xDSL DATA LED	14	Console port
15	GE WAN Port	16	GE LAN Port
17	GE LAN Port	18	GE LAN Port
19	GE LAN Port	20	SIM/ACT LED
21	VPN LED	22	#6-32 Ground screw

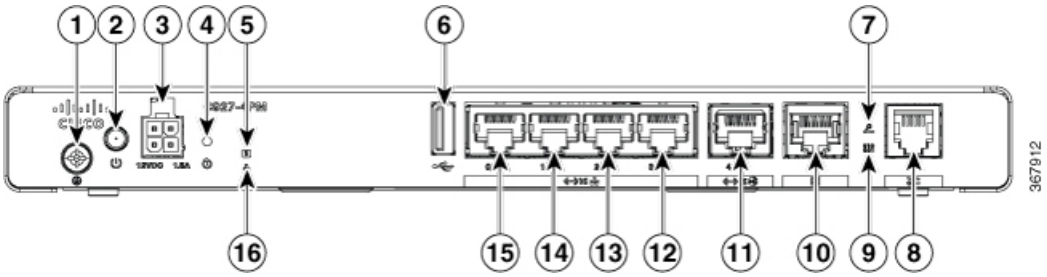
Figure 9: Cisco C927-4P - I/O View



1	#6-32 Ground screw	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	USB2.0 port
7	xDSL CD LED	8	DSL port
9	xDSL DATA LED	10	Console port

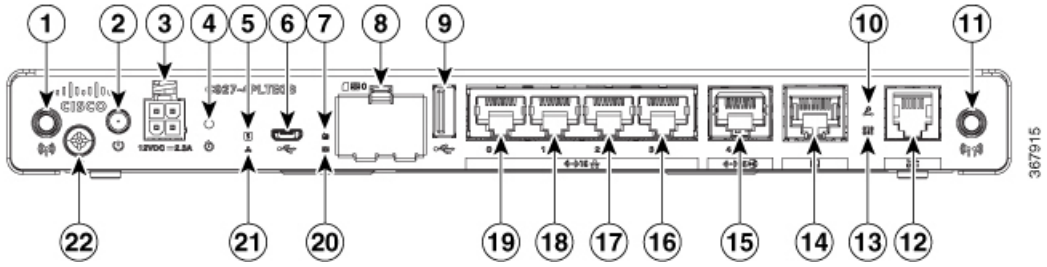
11	GE WAN port	12	GE LAN port
13	GE LAN port	14	GE LAN port
15	GE LAN port	16	VPN LED

Figure 10: Cisco C927-4PM - I/O View



1	#6-32 Ground screw	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	USB2.0 port
7	xDSL CD LED	8	DSL port
9	xDSL DATA LED	10	Console port
11	GE WAN port	12	GE LAN port
13	GE LAN port	14	GE LAN port
15	GE LAN port	16	VPN LED

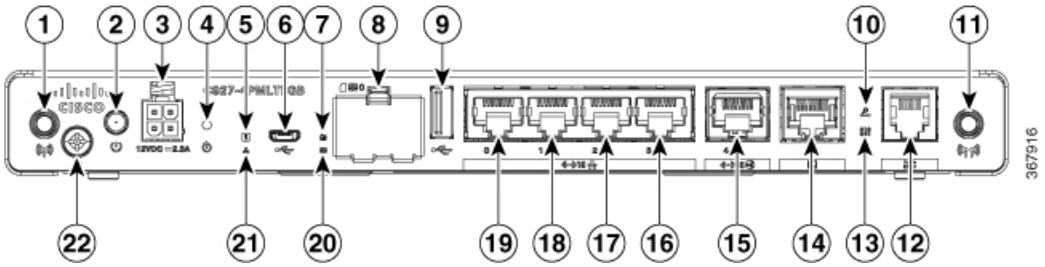
Figure 11: Cisco C927-4PLTEGB - I/O View



1	Antenna	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	Micro USB
7	RSSI LED	8	SIM card slot
9	USB2.0 port	10	xDSL CD LED

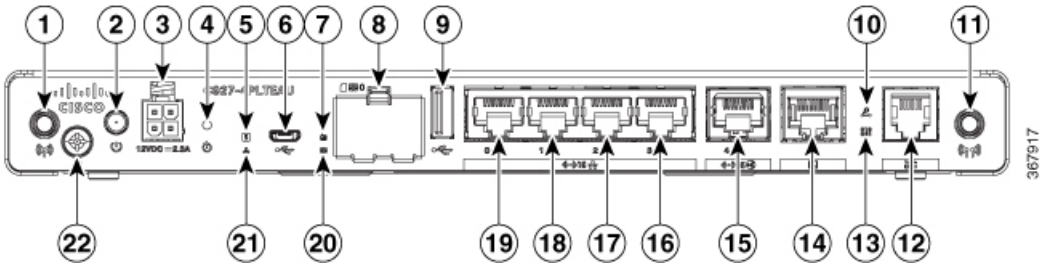
11	Antenna	12	DSL port
13	xDSL DATA LED	14	Console port
15	GE WAN Port	16	GE LAN Port
17	GE LAN Port	18	GE LAN Port
19	GE LAN Port	20	SIM/ACT LED
21	VPN LED	22	#6-32 Ground screw

Figure 12: Cisco C927-4PMLTEGB - I/O View



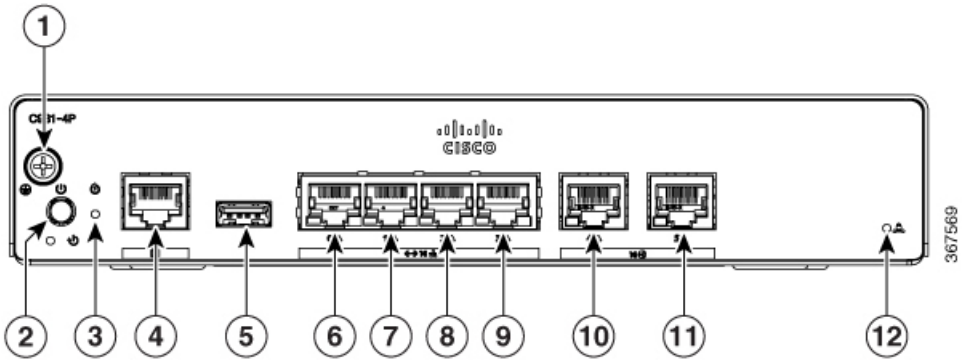
1	Antenna	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	Micro USB
7	RSSI LED	8	SIM card slot
9	USB2.0 port	10	xDSL CD LED
11	Antenna	12	DSL port
13	xDSL DATA LED	14	Console port
15	GE WAN Port	16	GE LAN Port
17	GE LAN Port	18	GE LAN Port
19	GE LAN Port	20	SIM/ACT LED
21	VPN LED	22	#6-32 Ground screw

Figure 13: Cisco C927-4PLTEAU - I/O View



1	Antenna	2	Power button
3	12VDC input	4	Reset button
5	System LED	6	Micro USB
7	RSSI LED	8	SIM card slot
9	USB2.0 port	10	xDSL CD LED
11	Antenna	12	DSL port
13	xDSL DATA LED	14	Console port
15	GE WAN Port	16	GE LAN Port
17	GE LAN Port	18	GE LAN Port
19	GE LAN Port	20	SIM/ACT LED
21	VPN LED	22	#6-32 Ground screw

Figure 14: Cisco C931-4P - I/O View



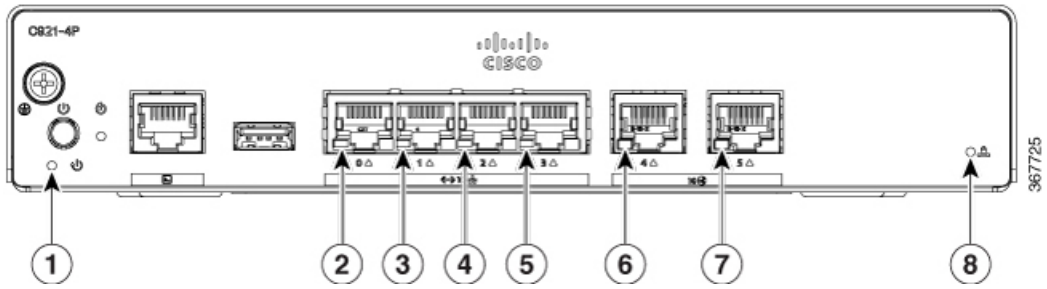
1	#6-32 Ground screw	2	Power button
3	Reset button	4	Console port
5	USB2.0 port	6	GE LAN port
7	GE LAN port	8	GE LAN port

9	GE LAN port	10	GE WAN port
11	GE WAN port	12	VPN LED

LED Indicators

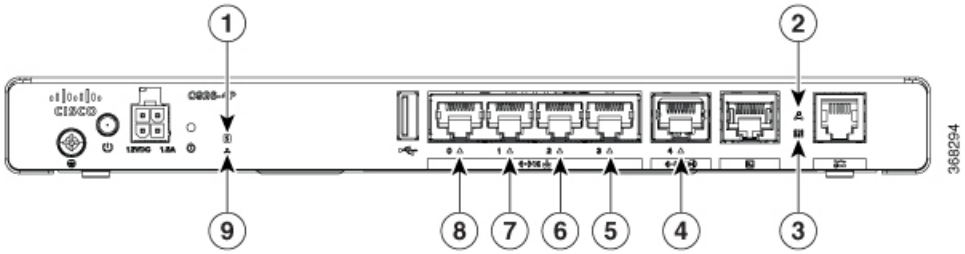
The following figures and table summarize the LED indicators that are located in the bezel or chassis of the 900 series.

Figure 15: LED Indicators on Ethernet SKUs- I/O Side



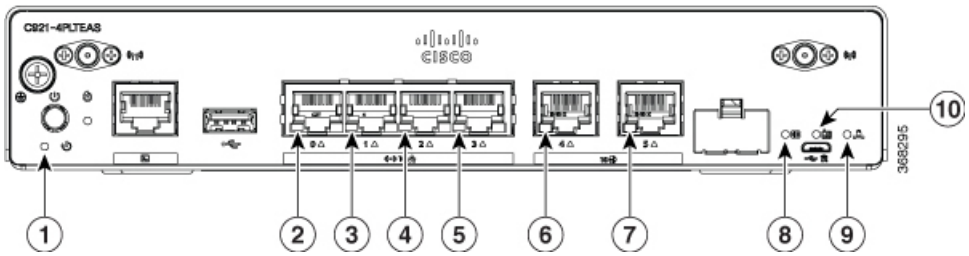
1	Power LED	2	LAN LED
3	LAN LED	4	LAN LED
5	LAN LED	6	WAN LED
7	WAN LED	8	VPN LED

Figure 16: LED Indicators on DSL SKUs- I/O Side



1	System LED	2	xDSL CD LED
3	xDSL DATA LED	4	WAN LED
5	LAN LED	6	LAN LED
7	LAN LED	8	LAN LED
9	VPN LED		

Figure 17: LED Indicators on 4G LTE SKUs- I/O Side



1	Power LED	2	LAN LED
3	LAN LED	4	LAN LED
5	LAN LED	6	WAN LED
7	WAN LED	8	SIM/ACT LED
9	VPN LED	10	RSSI LED

The following table summarizes the LED indicators that are located in the chassis of the Cisco ISR 900 series routers.

Table 2: LED Indicators for Cisco ISR 900 Series Routers

Port	LED Color	Description
SYS	OFF	System is off
	Blink	Boot up phase or in ROM Monitor mode
	Steady on	Normal operation
	Amber(steady)	Thermal trip
	Amber(blink)	ROMMON code signing verification failure
VPN OK	Green	At least one VPN session is active
	OFF	VPN not connected
LAN	Green(Solid)	LAN connection is established.
	Green (Blinking)	Data transmission is happening on the link.
	OFF	LAN is not connected

Port	LED Color	Description
WAN	Green(Solid)	WAN link is established
	Green (Blinking)	Data transmission is happening on the link.
	OFF	WAN link is not connected.
DSL CD	OFF	Shut
	Green(Blinking)	Training, or no shut and cable disconnected.
	Green (solid)	Trained
DSL Data	OFF	Shut
	Green(Blinking)	TX/RX Data
RSSI	Green (Solid)	Signal > –60 dBm Very strong signal
	Yellow	60dBm > Signal > -75dBm Strong signal
	Yellow(blinking)	75dBm > Signal > -90dBm Fair signal
	OFF	Signal < –90 dBm Unusable signal
SIM	OFF	No SIM
	Steady on	SIM present in slot
	Blink	TXD/RXD data

Power Supply

The product power specifications for external power supply units are as follows:

- AC input voltage: Universal 100 to 240 VAC
- Frequency: 50 to 60 Hz
- Maximum output power: 18W or 30W depending on the SKU
- Output voltage: +12VDC for system power

Specifications of Cisco 900 Series Integrated Services Routers

For specifications on the Cisco 900 Series ISRs, refer to the Cisco 900 series Specifications document.

Periodic Inspection and Cleaning

We recommend to periodically inspect and clean the external surface of the router to minimize the negative impact from environmental dust or debris. The frequency of inspection and cleaning is dependent upon the severity of the environmental conditions, but we recommend a minimum once in every six months. Cleaning involves vacuuming router air intake and exhaust vents.

Note Sites with ambient temperatures consistently above 25°C and with potentially high levels of dust or debris might require periodic preventative maintenance cleaning.