



# Specifications and Cables

This appendix provides system, port, and cabling specifications for the Cisco 827 routers.

## System Specifications

Table A-1 outlines the system specifications for the routers.

**Table A-1 System Specifications**

Description	Design Specification
<b>Physical Dimensions</b>	
Dimensions (H x W x D)	2.0 x 9.7 x 8.5 in. (5.1 x 24.6 x 21.6 cm)
Weight (does not include desktop power supply)	<ul style="list-style-type: none"> <li>• Cisco 827-4V router: 1.5 lb. (0.68 kg)</li> <li>• Cisco 827H router: 1.48 lb. (0.67 kg)</li> <li>• Cisco 827 router: 1.48 lb. (0.67 kg)</li> </ul>
<b>Environmental Operating Ranges</b>	
Nonoperating temperature	–4 to 149°F (–20 to 65°C)
Nonoperating humidity	5 to 95%, relative humidity
Nonoperating altitude	0 to 15,000 ft (4570 m)
Operating temperature	32 to 104°F (0 to 40°C)
Operating humidity	10 to 85% relative humidity
Operating altitude	0 to 10,000 ft (3000 m)
<b>Router Power (Cisco 827, 827-4V, and SOHO 77)</b>	
AC input voltage	100 to 250 VAC
Frequency	50 to 60 Hz
Power consumption	29W
<b>Router Power (Cisco 827H and SOHO 77H)</b>	
AC input voltage	100 to 240 VAC
Frequency	50 to 60 Hz
Power consumption	15W

**Table A-1 System Specifications (continued)**

Description	Design Specification
<b>Telephone Port Power (Cisco 827-4V)</b>	
Voltage	-24V and -71V

For information on regulatory compliance, refer to the *Regulatory Compliance and Safety Information for Cisco 827 Routers* document that shipped with your router.



**Warning**

**Ultimate disposal of this product should be handled according to all national laws and regulations.**

## Port Connector Pinouts

This section provides pinouts for the following connectors:

- Ethernet—See [Table A-2](#).
- Console (for connecting a terminal or PC)—See [Table A-3](#).
- Telephone—See [Table A-4](#).
- ADSL—See [Table A-5](#)
- Power—See [Table A-6](#) and [Table A-7](#).

[Table A-2](#) shows the Ethernet connector pinouts for the Cisco 827-4V, Cisco 827, Cisco 827H, SOHO 77, and SOHO 77H routers.

**Table A-2 Ethernet Connector Pinouts (RJ-45)**

Pin	Function (TO HUB/TO PC Button – IN Position)	Function (TO HUB/TO PC Button – OUT Position)
1	TX+	RX+
2	TX–	RX–
3	RX+	TX+
4	Unused	Unused
5	Unused	Unused
6	RX–	TX–
7	Unused	Unused
8	Unused	Unused

[Table A-3](#) shows the Ethernet connector pinouts for the Cisco 827-4V, Cisco 827, Cisco 827H, SOHO 77, and SOHO 77H routers.

**Table A-3 Console Connector Pinouts (RJ-45)**

<b>Pin</b>	<b>Function</b>
1	RTS
2	DTR
3	TXD
4	GND
5	GND
6	RXD
7	DSR
8	CTS

The console port is configured as a data communications equipment (DCE) device. The default parameters for the console port are as follows:

- 9600 baud
- Eight data bits
- No parity
- One stop bit

Table A-4 shows telephone connector pinouts for the Cisco 827-4V router.

**Table A-4 Cisco 827-4V Router Telephone Connector Pinouts (RJ-11)**

Pin	Function
1	Unused
2	Tip
3	Ring
4	Unused

Table A-5 shows ADSL connector pinouts for the Cisco 827-4V, Cisco 827, Cisco 827H, SOHO 77, and SOHO 77H routers.

**Table A-5 ADSL Connector Pinouts (RJ-11)**

Pin	Function
1	Loopback to pin 6
2	Unused
3	Tip
4	Ring
5	Unused
6	Loopback to pin 1

Table A-6 shows the power connector pinouts for the Cisco 827, Cisco 827-4V, and SOHO 77 routers.

**Table A-6 Cisco 827, Cisco 827-4V, and SOHO 77 Power Connector Pinouts**

Pin	Function
1	ROF
2	RTN
3	+12
4	-12
5	+5
6	RTN
7	-71
8	-24

Table A-7 shows the power connector pinouts for the Cisco 827H and SOHO 77H routers.

**Table A-7 Cisco 827H and SOHO 77H Power Connector Pinouts**

Pin	Function
1	ROF
2	RTN
3	AC_Lost
4	Unused
5	+5VF
6	RTN
7	Unused
8	Unused

## Cabling Specifications

This section provides specifications for the following Ethernet cables, which you might need to provide:

- Straight-through cables
- Crossover cables

This section also provides information on Ethernet and telephone cable distance limitations. (Telephone cable connects a device to a telephone port.)

## Ethernet Cable Specifications

Table A-8 lists the specifications for straight-through and crossover Ethernet cables.

**Table A-8 Ethernet Cable Specifications**

Type	Category	Shielding
10BASE-T	Category 3 or 5	Shielded twisted-pair (STP)
10BASE-T	–	Unshielded twisted-pair (UTP)

## Maximum Cable Distances

Table A-9 provides the maximum distances of Ethernet and telephone cables that you can use to connect equipment to the router.

**Table A-9 Maximum Cable Distances**

Cable	Maximum Distance
Ethernet cables	328 ft (100 m)
Telephone cable	500 ft (152 m)