



# Specifications and Cables

This appendix provides system, port, and cabling specifications for the Cisco 831 and SOHO 91 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. (51 x 246 x 216 mm)
Weight (does not include desktop power supply)	1.5 lb (0.68 kg)
<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)

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

Description	Design Specification
<b>Router Power</b>	
AC input voltage	100 to 240 VAC
Frequency	50 to 60 Hz
Power consumption	Maximum of 18W
Voltage	18 VDC

For information on regulatory compliance, refer to the *Regulatory Compliance and Safety Information for Cisco 800 Series and SOHO Series Routers* document that was shipped with your router.

**Warning**

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

# LAN Port

The Cisco 831 and SOHO 91 routers provide a fixed onboard LAN connection, which has a 10/100-Mbps wire-speed non-blocking switch controller that performs the 10BASE-T/100BASE-T Ethernet switch operation. The automatic medium dependent interface in normal mode (MDI)/medium dependent interface in crossover mode (MDIX) crossover function eliminates the need for crossover cables. [Table A-2](#) provides pinouts for the Ethernet LAN port on the routers.

**Table A-2 Ethernet LAN Port**

Pin	Function
1	RX+
2	RX-
3	TX+
4	Unused
5	Unused
6	TX-
7	Unused
8	Unused

# Console Connector Pinouts

Table A-3 provides pinouts for console connector (for connecting a terminal or PC).

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

Pin	Function
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
- 8 data bits
- No parity
- One stop bit

## Cabling Specifications

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

- Straight-through cable
- Crossover cable

Thanks to the auto-crossover (autosensing) function, both straight-through and crossover cables can be used for the Ethernet LAN port.

## Ethernet Cable Specifications

Table A-4 provides the specifications for straight-through and crossover Ethernet cables.

**Table A-4 Ethernet Cable Specifications**

Type	Category
10BASE-T	Category 3 or 5
100BASE-T	Category 5 or above

## Maximum Cable Distance

Table A-5 provides the maximum distance of Ethernet cables that you can use to connect equipment to the router.

**Table A-5 Maximum Cable Distance**

Cable	Maximum Distance
Ethernet cables	328 ft (100 m)

