APPENDIX A

Technical Specifications

This appendix provides router, port, and cabling specifications for Cisco IAD880 series integrated access devices (IADs). It contains the following sections:

Warning **Ultimate disposal of this product should be handled according to all national laws and regulations.** Statement 1040

Note For compliance and safety information, see the *Regulatory Compliance and Safety Information Roadmap* that was shipped with the router and the *Regulatory Compliance and Safety Information for Cisco 800 Series and SOHO Series Routers*.

Router Specifications

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

Table A-1 Router Specifications

Description	Design Specification
Physical Dimensions	
Dimensions with antenna and rubber feet (H x W x D)	1.9 x 12.8 x 10.4 in.
Weight (not including desktop power supply)	5.5 lb (2.5 kg) maximum

Table A-1 Router Specifications

Description	Design Specification
Environmental Operating Ranges	
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)
Noise criterion	NC- 33; less than or equal to 32 dBA
Router Power Adapter	
Input voltage	85 to 264 VAC
Input frequency	47 to 63 Hz
Power output	60 W maximum
Output voltages	+12 VDC
Inline Power-over-Ethernet Adapter	
Input voltage	85 to 264 VAC
Input frequency	47 to 63 Hz
Power output	80W maximum
Output voltage	–48 VDC

Wireless Access Point

Table A-2 lists the specifications for the wireless access point (AP).

Table A-2 Wireless Access Point Specifications

Description	Design Specification
Radio technology	IEEE 802.11n draft 2.0 standard compliant. 2x3 MIMO radio. Backward compatible with 802.11b/g.
Operating frequency	2.4-GHz radio band
Channels	Country-specific 20 and 40 MHz
PHY Data rate	802.11b up to 11 Mbps 802.11g up to 54 Mbps 802.11n up to 300 Mbps

LAN Port Pinouts

Table A-3 provides pinouts for the Ethernet LAN port.

Table A-3 Ethernet LAN Port Pinouts

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

Console Port Connector Pinouts

Table A-4 provides pinouts for the console connector (for connecting a terminal or PC).

Table A-4 Console Connector Pinouts (RJ-45-to-DB-9)

RJ-45 Pin	Function
1	RTS
2	DTR
3	TXD
4	GND
5	GND
6	RXD
7	DSR
8	CTS

G.SHDSL Port Connector Pinouts

Table A-5 provides pinouts for the G.SHDSL WAN port.

Table A-5 G.SHDSL WAN Port Pinouts

Pin	Function
1	Unused
2	TIP (Port1)
3	TIP (Port0)

Table A-5 G.SHDSL WAN Port Pinouts

Pin	Function
4	TIP (Port0)
5	TIP (Port1)
6	Unused

Data BRI Port Connector Pinouts

Table A-6 provides pinouts for the Data BRI port.

Table A-6 Data BRI Port Pinouts

Pin	Function
1	Unused
2	Unused
3	TXP
4	RXP
5	TXN
6	TXN
7	Unused
8	Unused

Voice ISDN BRI Interface Pin Numbers and Functions

Table A-7 provides the interface pin numbers and functions for the voice ISDN BRI port.

Table A-7 Interface Pin Numbers and Functions

ISDN BRI NT/TE Card	NT Interface[1]	TE Interface[2]
Pin 3/T+	Pin 3/R+	Pin 3/T+
Pin 4/R+	Pin 4/T+	Pin 4/R+
Pin 5/R-	Pin 5/T-	Pin 5/R-
Pin 6/T-	Pin 6/R-	Pin 6/T-

1. Use a straight-through cable for NT interfaces.
2. Use a crossover cable for TE interfaces.

Cable Specifications

This section provides specifications for the following Ethernet cables:

- Straight-through cable
- Crossover cable

Because of the autocrossover (autosensing) function, both straight-through and crossover cables can be used for the Ethernet LAN port.

Ethernet Cable Specifications

Table A-8 provides specifications that apply to both straight-through and crossover Ethernet cables.

Table A-8 Ethernet Cable Specifications

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

Maximum Cable Length

The maximum length for the Ethernet cables that connect equipment to the router is 328 ft (100 m). This length is also the maximum distance between the router and the equipment connected to it.