

Technical Specifications

This appendix describes the technical specifications and connector pinouts of the switch.

Technical Specifications

Table A-1 provides the technical specifications of both switches.

| Specification | EtherSwitch 1220 | EtherSwitch 1420 |
|-----------------------|--------------------------|--------------------------|
| Operating temperature | 32–104°F (0–40°C) | 32–104°F (0–40°C) |
| Operating humidity | 10–90% (noncondensing) | 10–90% (noncondensing) |
| Operating altitude | Up to 10,000 ft (3050 m) | Up to 10,000 ft (3050 m) |
| Power consumption | 65W | 110W |
| AC input voltage | 100–240V, 50–60 Hz | 100–240V, 50–60 Hz |
| DC input voltage | 5V@8A 12V@1A | 5V@14A 12V@1A |
| Dimensions | | |
| Weight | 10.5 lb (4.78 kg) | 13 lb (5.90 kg) |
| Width | 17.5 in. (44.45 cm) | 17.5 in. (44.45 cm) |
| Depth | 15.3 in. (38.86 cm) | 12.4 in. (31.50 cm) |
| Height | 1.73 in. (4.39 cm) | 3.34 in. (8.76 cm) |

Connector Pinouts

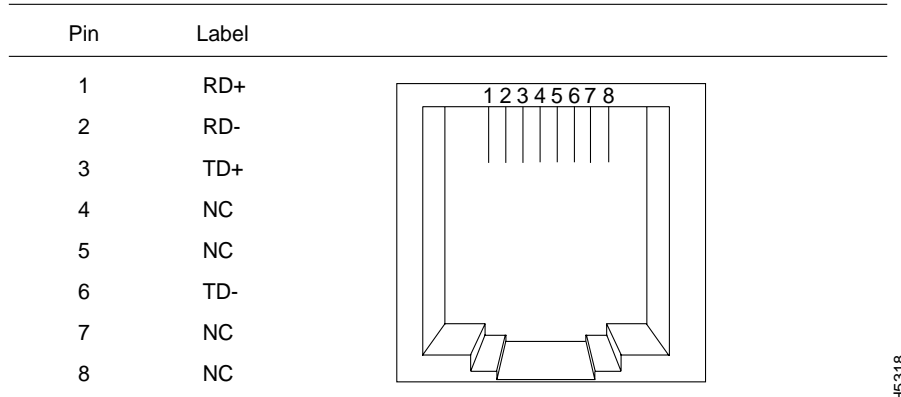
This section describes the following connectors used by the switch:

- 10BaseT RJ-45
- 10Base-5 AUI
- Serial RS-232

10BaseT Connector Pinout

Ports 1 through 25 use standard RJ-45 connectors and 10BaseT pinouts with internal crossover, as indicated by an X. These 10BaseT ports have their transmit (TD) and receive (RD) signals internally crossed, for attachment of an adapter using a straight-through cable. Figure A-1 shows the connector pinout and the pin arrangement.

Figure A-1 10BaseT Pinout and Connector



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100BaseTX

100BaseTX ports use an RJ-45 connector and pinout equivalent to the one shown in Figure A-1.

AUI Connector Pinout

The AUI connector is a 15-pin female receptacle, as shown in Figure A-2; the pinout is shown in Table A-2.

Figure A-2 AUI Connector

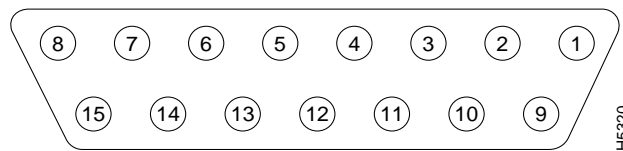


Table A-2 AUI Connector Pinout

| Pin | Label | Description |
|-----|-------|--|
| 1 | GND | Ground |
| 2 | CI+ | Positive AUI differential collision-data input |
| 3 | TX+ | Positive AUI differential transmit-data input |
| 4 | GND | Ground |
| 5 | RX+ | Positive AUI differential receive-data output |
| 6 | GND | Ground |
| 7 | NC | |
| 8 | GND | Ground |
| 9 | CI- | Negative AUI differential collision data |
| 10 | TX- | Negative AUI differential transmit-data input |
| 11 | GND | Ground |
| 12 | RX- | Negative AUI differential receive-data output |
| 13 | +12V | 12V supply for external MAU |
| 14 | GND | Ground |
| 15 | NC | |

Connector Pinouts

Serial Connector Pinout

The serial connector is a male 9-pin D-Sub connector, as shown in Figure A-3. The pinout is shown in Table A-3.

Figure A-3 Serial Connector

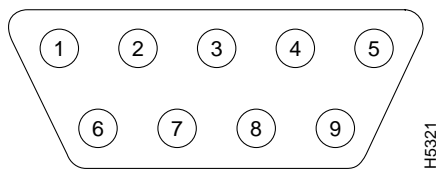


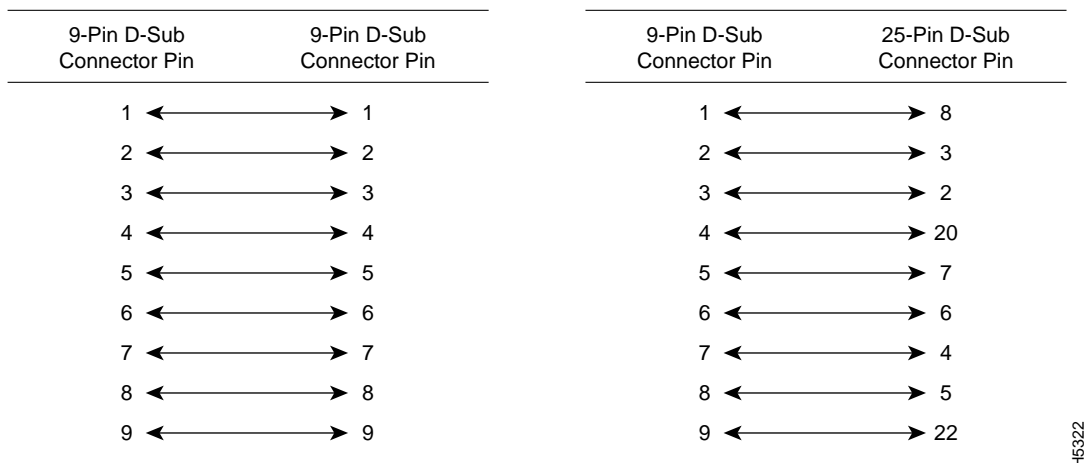
Table A-3 Serial Connector Pinout

| Pin | Label |
|-----|-------|
| 1 | DCD |
| 2 | RD |
| 3 | TD |
| 4 | DTR |
| 5 | GND |
| 6 | DSR |
| 7 | RTS |
| 8 | CTS |
| 9 | RI |

The shell is connected to the chassis ground. Use a standard modem cable to connect to a modem. Use a null-modem cable to connect to a terminal.

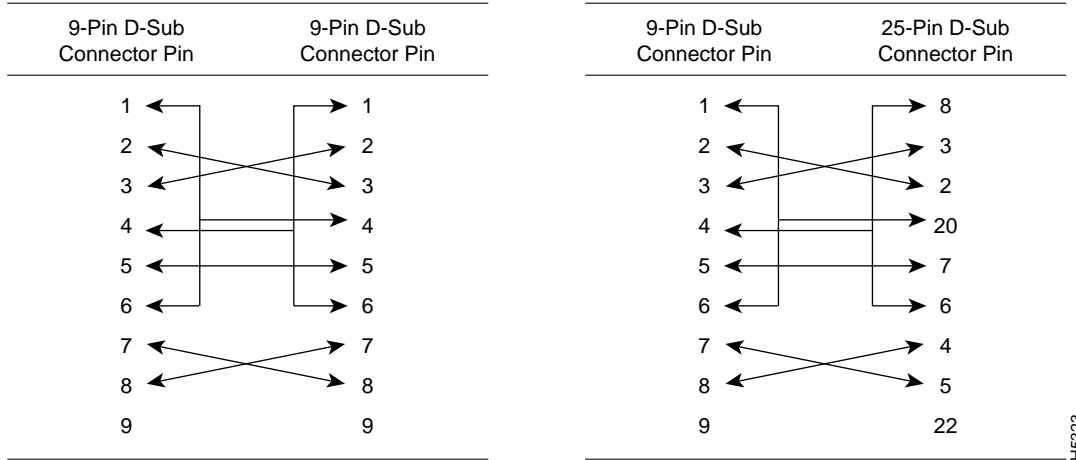
Either piece of equipment can come with either 9- or 25-pin connectors, as shown in Figure A-4 and Figure A-5.

Figure A-4 Modem Cable Schematic with 9- and 25-Pin Devices



Connector Pinouts

Figure A-5 Null-Modem Cable Schematic with 9- and 25-Pin Devices

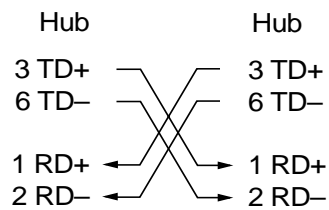


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Straight-Through and Crossover Cable Pinouts

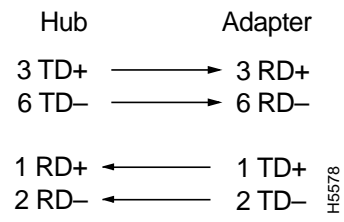
The schematics of crossover and straight-through cables are shown in Figure A-6 and Figure A-7, respectively.

Figure A-6 Crossover Cable Schematic



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Figure A-7 Straight-Through Cable Schematic



Connector Pinouts
