CHAPTER B

Connector Pinouts

This appendix describes the connectors for the Catalyst 2820 FDDI and 100BaseT modules.

FDDI Modules

This section describes the following connectors:

- UTP RJ-45 connector
- FDDI MIC connectors
- Optical bypass switch connector
- 100BaseFX ST connector

UTP SAS Connector Pinout

The UTP SAS module uses standard RJ-45 connectors. The connector and the arrangement of the pins is shown in Figure B-1. Pinouts are shown in Table B-1. Note that connector shells are attached to the chassis ground. Stations are always attached with a crossover cable.

Figure B-1 FDDI UTP SAS RJ-45 Connector

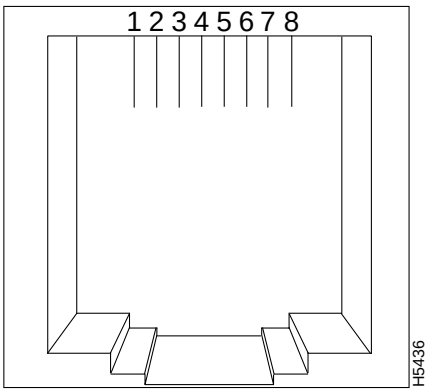


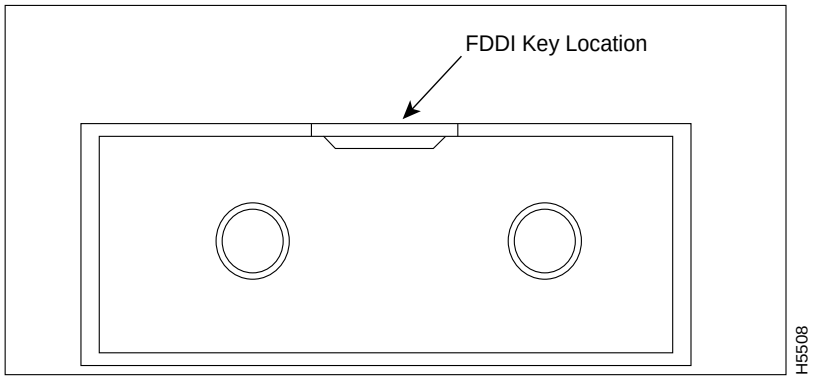
Table B-1 FDDI UTP SAS RJ-45 Connector Pinout

Pin	Description
1	TX+
2	TX–
3	NC
4	NC
5	NC
6	NC
7	RX+
8	RX–

FDDI MIC Connector

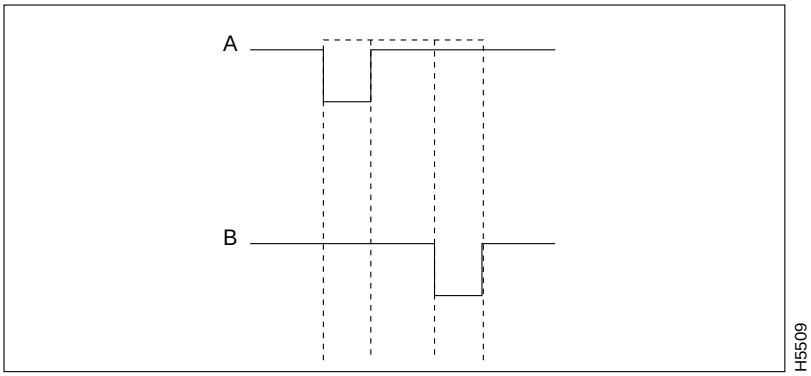
The FDDI module uses standard MIC connectors, as shown in Figure B-2.

Figure B-2 FDDI MIC Connectors



The receptacle keys for ports A and B of the FDDI Fiber DAS module are shown in a simplified form in Figure B-3.

Figure B-3 Receptacle Keys for Ports A and B



Optical Bypass Switch Connector

The FDDI Fiber DAS module uses a 6-pin mini-DIN connector for the optical bypass switch. The connector is shown in Figure B-4 and the pin arrangement is shown in Table B-2.

Figure B-4 6-Pin Mini-DIN Connector

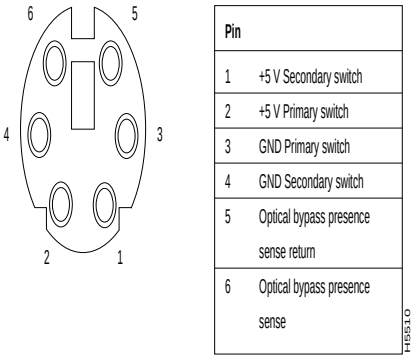


Table B-2 6-Pin Mini-DIN Connector

Pin	Description
1	+5 V secondary switch
2	+5 V primary switch
3	GND primary switch
4	GND secondary switch
5	Optical bypass presence-sense return
6	Optical bypass presence sense

100BaseT Connectors

This section describes the 100BaseTX (RJ-45) and 100BaseFX (ST) connectors for the Catalyst 2820 100BaseT modules.

100BaseTX RJ-45 Connector Pinouts

The 100BaseTX modules use standard RJ-45 connectors. The arrangement of the pins is shown in Figure B-5, and the pinouts are shown in Table B-3.

Figure B-5 100BaseTX RJ-45 Connector

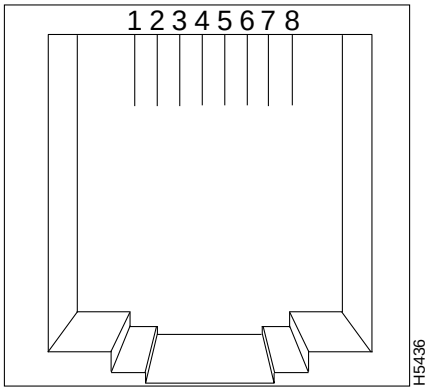


Table B-3 100BaseTX RJ-45 Connector Pinouts

Pin	Description
1	RD+
2	RD-
3	TD+
4	NC
5	NC
6	TD-
7	NC
8	NC

Connector shells are attached to the chassis ground. The 100BaseTX ports have the transmit (TD) and receive (RD) pairs internally crossed (as shown in Figure B-7) for attachment to an adapter using a straight-through cable.

The straight-through and crossover cable schematics are shown in Figure B-6 and Figure B-7.

Figure B-6 Straight-Through Cable Schematic

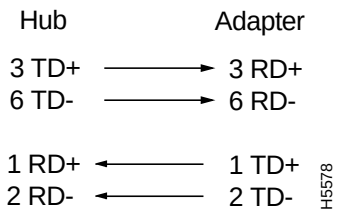
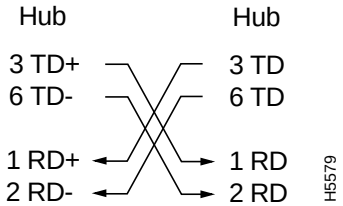


Figure B-7 Crossover Cable Schematic



100BaseFX ST Connector

The 100BaseFX modules use standard ST connectors, as shown in Figure B-8.

Figure B-8 100BaseFX ST Connector