Installation

This chapter describes how to install the Catalyst 2800 modules in the Catalyst 2800 high-speed expansion slots. When unpacking the Catalyst 2800 modules, check the contents of the package against the list in "Packing List" in the "Introduction" chapter.

Note All of the Catalyst 2800 modules are hot-pluggable: you can install a module without turning off the Catalyst 2800.

Removing a Blank Face Plate

Blank face plates cover the high-speed expansion slots on the Catalyst 2800. Figure 2-1 shows a Catalyst 2800 with two blank face plates.

To remove the face plates, do the following:

Step 1 Loosen the thumbscrews attaching the face plate to the Catalyst 2800.

Step 2 Remove the face plate from the Catalyst 2800 and store it for future use. Figure 2-2 shows a Catalyst 2800 with an empty expansion slot.

Figure 2-1   Catalyst 2800 with Blank Face Plates
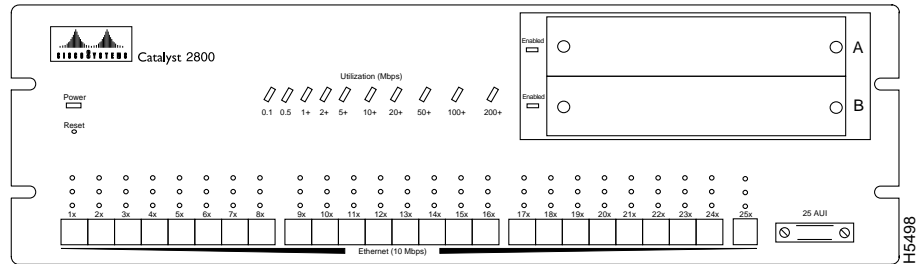
Figure 2-2   Catalyst 2800 with an Empty High-Speed Expansion Slot
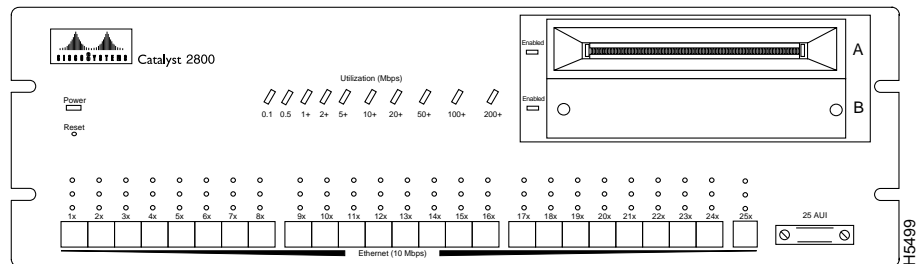
Installing a Module

After the face plate has been removed, follow these steps to install a module into an empty Catalyst 2800 high-speed expansion slot:

Step 1   Slide the module into the high-speed expansion slot card-guides until you feel the card touch the back of the unit.

Step 2   Push the module firmly until you feel it snap into place. Tighten the thumbscrews on the face plate to secure the module in place.

When the module is installed correctly, its face plate sits flush against the front of the Catalyst 2800 unit.

Step 3 Attach the appropriate cable. There are three possible connectors: ST (100Base-FX modules), MIC (fiber FDDI modules), and RJ-45 (100Base-TX and FDDI UTP SAS modules).

If you are attaching a fiber cable, remove the rubber plugs from the fiber port on the module and store the plugs for future use.

a For an MIC Connector, attach the cable, remove the protecting cap from the cable, line up the key slot on the cab header with the raised key in the fiber MIC connector. Insert the cable, as shown in Figure 2-3, into the fiber port until the locks snap into place.

**Figure 2-3   Attaching a Fiber Optic Cable to an FDDI Module**
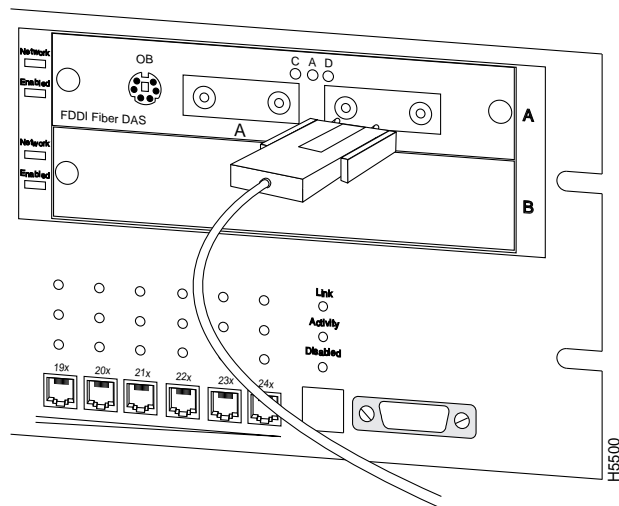
Caution   When installing a fiber module, do not remove the rubber plugs from the fiber port or the rubber caps from the fiber cable until you are ready to connect the cable. The plugs and caps protect the fiber port and cable from contamination and ambient light.

b For an ST connector, line up the two small tabs on the cable header with the keyed holes in the fiber connector. Insert the cable into the fiber port, turn clockwise one-quarter turn, and release the cable.

c If you are attaching a UTP cable, insert the cable into the RJ-45 connector on the module as illustrated in Figure 2-4.

Figure 2-4   Attaching a UTP Cable to the FDDI Module
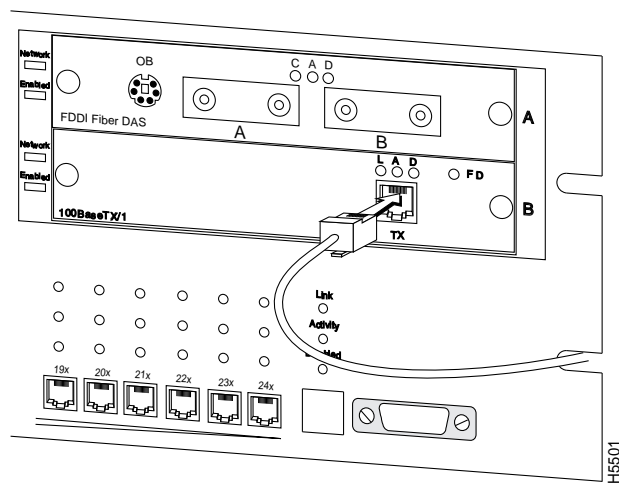
The module is now installed. The Catalyst 2800 should look like Figure 2-5.

Note   When interconnecting two Catalyst 2800s, a cross-over cable must be used.

Removing a Module

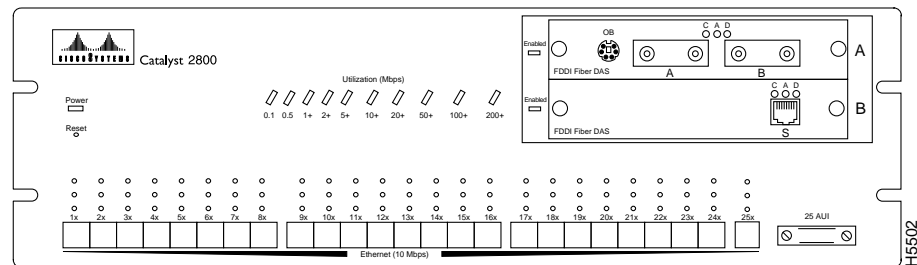**Figure 2-5   Installed FDDI Module**

Figure 2-5 shows a Catalyst 2800 with two FDDI modules installed. To remove a module from a Catalyst 2800 high-speed expansion slot, do the following:

Step 1   Remove the cable from the module port.

     a   If you are removing a UTP cable, disconnect it from the RJ-45 connector.

     b   If you are removing a MIC connector, press in the locks on the cable header and then pull the cable from the port. Replace the protective cap on the end of the fiber cable and the rubber plugs in the fiber port.

     c   If you are removing an ST connector, grasp the circular part of the cable header, push it in slightly while turning it counter-clockwise, then pull the cable from the port.

Step 2   Loosen the thumbscrews attaching the module face plate to the front of the Catalyst 2800.

Step 3   Remove the module from the Catalyst 2800 by grasping the thumbscrews and pulling the module out of the slot.

Power-On Self-Test (POST) for FDDI

When an FDDI module is installed in a Catalyst 2800, all LEDs on the module front panel are on, and the module automatically begins its Power-On Self-Test or POST. If the module passes the POST, the module enabled LED on the Catalyst 2800 remains on. If the module fails the Post, the module enabled LED blinks. For more information about the module enabled LED, refer to the *Catalyst 2800 User Guide.*

If the module fails the POST, the LEDs on the module indicate the type of failure. Table 2-1 shows how to read LEDs for possible POST failures.

Table 2-1   LED Indicators of Failed FDDI POST

Failed Component	Connected LED	Activity LED	Disabled LED	Response
CPU	On	On	On	Call for assistance.
FLASH	On	On	On	
Local RAM	On	On	On	
Shared RAM	Slow blink	On	Slow blink	Start the Catalyst 2800 Management Console and check for errors.
100 Mbps controller	Slow blink	Slow blink	On	
FDDI controller	Slow blink	On	On	
ES loopback test	Fast blink	Slow blink	On	
FDDI loopback test	Fast blink	On	On	
Player+ (A)	On	On	Fast blink	
Player+ (B)	On	Fast blink	On	

POST for Fast Ethernet Modules

When first powered on, all LEDs on the module front panel are on, and a Power-On Self-Test (POST) automatically begins. If the module passes POST, the Module Enabled LED on the Catalyst 2800 remains on. If the module fails POST, the Module Enabled LED is off to indicate a problem.

For a complete description of each LED, see "Fast Ethernet Module LEDs" in the chapter "Introduction."