



Fast Ethernet Module (FEM) Reference

Product Number: CSS8-IOM-8FE
CSS8-IOM-6/2FE

The Fast Ethernet Module (FEM) is available in two models:

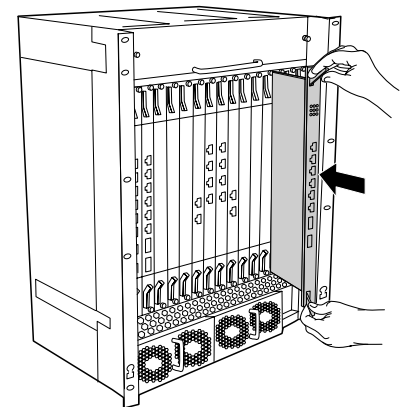
- Model CSS-11800-LAN-01 contains 8 RJ-45 Fast Ethernet 10/100-Mbps 10BASE-T/100BASE-TX connectors
- Model CSS-11800-LAN-03 contains 6 RJ-45 Fast Ethernet 10/100-Mbps 10BASE-T/100BASE-TX connectors and 2 100BASE-FX SC fiber connectors

Installing a FEM

You must power down the CSS to install a module.

To install an FEM:

1. Properly ground yourself prior to handling the module. For example, wear an anti-static wrist strap (included in the Accessory kit) and stick the copper-tape end of the strap to an unpainted metal surface on the chassis. Make sure that the wrist strap makes good contact with your skin.
2. If necessary, power down the CSS.
3. Locate an open slot in the chassis. FEMs are restricted to slots 1 through 4, or 11 through 14 (these I/O slots are color-coded blue). If necessary, remove a blank panel from the chassis to expose a slot for the module.
4. Insert the module into the board guides at the top and bottom of the slot and slide it into the chassis by pressing firmly at the top and bottom of the faceplate.
5. Close both ejectors simultaneously to seat the module connector into the backplane.
6. Using a Phillips screwdriver, tighten the spring-loaded screws on the front of the module faceplate.
7. Boot up the CSS. The FEM will run its diagnostics and initialize automatically.



Replacing a FEM

You must power down the CSS to remove or replace an FEM.

When you remove a module and replace it with a module of the *same* type, the Switch Control Module (SCM) downloads the former module's configuration to the new module automatically. The newly installed module boots up with the same configuration as the former module.

When you remove a module and replace it with a module of a *different* type, the SCM initializes the new module. You can then use CLI commands to configure the new module.

Using the Fast Ethernet Module LEDs

The FEM is available in two models:

- Model CSS-11800-LAN-01 contains 8 RJ-45 Fast Ethernet 10/100-Mbps 10BASE-T/100BASE-TX connectors
- Model CSS-11800-LAN-02 contains 6 RJ-45 Fast Ethernet 10/100-Mbps 10BASE-T/100BASE-TX connectors and 2 100BASE-FX SC fiber connectors

Each model contains Power, Status, and Ready LEDs for module status and Duplex, Speed, and Link LEDs for each of the 8 connectors.

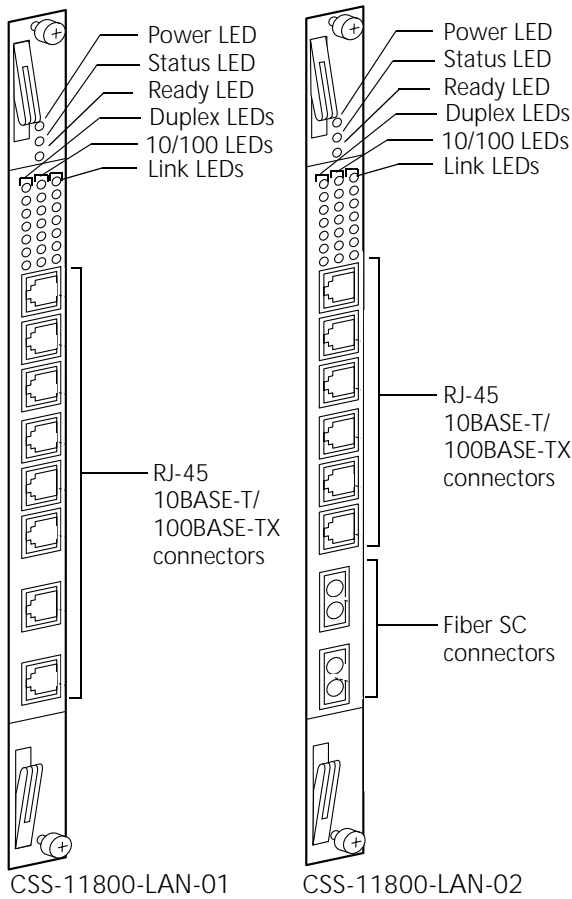


Table 1. Fast Ethernet Module LED Descriptions

LED Name	Color	LED Status	Indicates
Power	Green	Off	Module does not have power
		On	Module has power
Status	Yellow	Off	Module is operational
		On	Module is experiencing an error
Ready	Green	Off	Module not initialized
		On	Module initialized and ready
Duplex (FES Ports 1 to 8)	Green	Off	Port is operating at half duplex
		On	Port is operating at full duplex
10/100 (FES Ports 1 to 8)	Green	Off	Port is operating at 10 Mbps
		On	Port is operating at 100 Mbps
Link (FES Ports 1 to 8)	Green	Off	No link established
		On	Link established
		Blinking	Link established and activity detected

Related CLI Commands

To view the current state of the FEM and verify it is online, use the **show chassis slot_number** command.

For More Information

For information about the connector pinouts for the FEM connectors, refer to the *Content Services Switch Getting Started* (previously described in the *Installation and Operation Guide*).