



Switch Control Module (SCM) Reference

Product Number: CSS8-SCM

The Switch Control Module (SCM) provides master control and packet memory storage and is responsible for the following functions: system powerup and boot control, centralized routing table management, system-wide connection management, and interface to an external Network Management Station. While only one SCM is required in a configuration, you can install and configure a second SCM for redundancy (a maximum of two SCMs are allowed in a chassis). A second SCM is passive and does not load share processing functions with the active module. If the active SCM fails, the CSS reboots and connections are terminated. The CSS restores all configurations using the startup-config file. The passive SCM becomes active automatically.

Note: The SCM contains a small lithium battery. Some jurisdictions restrict the ways in which items containing lithium batteries may be disposed. In particular, lithium batteries or products containing lithium batteries may never be disposed of in an unregulated fire. Other restrictions might apply.

Warning



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

Installing a Passive SCM

You must power down the CSS to remove or replace a module. After you install the passive SCM and reboot the CSS, use the **passive sync** command to copy the administrative username and password, IP address, subnet mask, and primary boot record from the active SCM to the passive SCM.

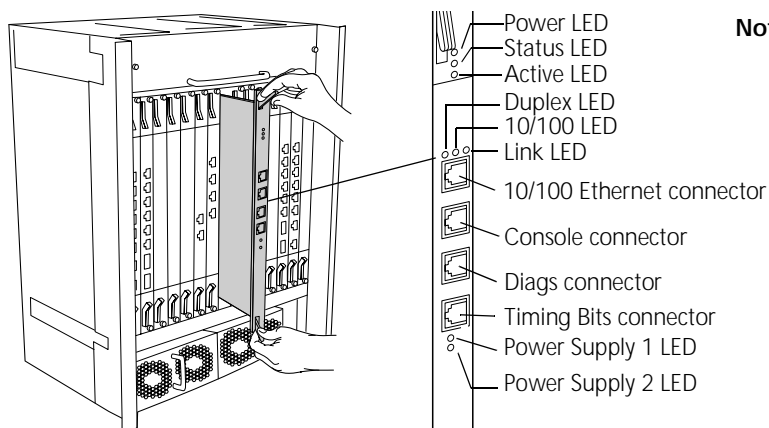
Replacing an Active SCM

You must power down the CSS to replace an active SCM. When you replace an active SCM in a CSS, the administrative username and password, IP address, subnet mask, and primary boot record revert to their default settings. To reconfigure these parameters, access the Offline Diagnostic Monitor menu at the boot prompt. For information on using the Offline Diagnostic Monitor menu, refer to *Content Services Switch Basic Configuration Guide*.

Installing an SCM

To install an SCM (refer to illustration on next page):

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. Active and passive SCMs are restricted to slots 7 and 8 (slots 7 and 8 are color-coded red). When the CSS initially boots, the SCM in slot 7 becomes active.
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. Reboot the CSS. The SCM begins diagnostics and initializes automatically.
8. If you are installing a passive SCM, use the **passive sync** command to copy the boot config from the active SCM to the passive SCM.



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

Using the Switch Control Module LEDs

The SCM front panel LEDs indicate module and configuration status. Table 1 describes the SCM LEDs and their indications.

Table 1. Switch Control 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 (only when the SCM is active; the LED is normally yellow when the SCM is passive)
Active	Green	Off	SCM is passive
		On	SCM is active
Duplex (Ethernet Management Port)	Green	Off	Port is operating at half duplex
		On	Port is operating at full duplex
10/100 (Ethernet Management Port)	Green	Off	Port is operating at 10 Mbps
		On	Port is operating at 100 Mbps
Link (Ethernet Management Port)	Green	Off	No link
		On	Link established
		Blinking	Link established and constant activity
PS 1 (Power Supply 1)	Green	Off	Power supply is not functioning
		On	Power supply is functioning
PS 2 (Power Supply 2)	Green	Off	Power supply is not functioning
		On	Power supply is functioning

Configuring a Terminal to the SCM Console Port

This section describes how to configure a terminal connected to the SCM console port. Initially, the terminal settings must match the CSS default settings as specified in Table 2.

Table 2. CSS Console Port Default Settings

Parameter	Default Setting	Parameter	Default Setting	Parameter	Default Setting
Baud Rate	9600	Parity	none	Flow Control	none
Data Bits	8	Stop Bits	1	Terminal Type	VT100/ANSI

Related CLI Commands

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