



Hotwire® Shelf Concentration Module (SCM) Card Installation Instructions

Document Number 8021-A2-GZ40-10

July 2000

What is a Hotwire Shelf Concentration Module?

A Hotwire® Shelf Concentration Module (SCM) is a circuit card assembly (CCA) that contains a parentcard with an ATM switch, a backplane interface, a processor, a cell mux/demux, and an uplink childcard. The childcard determines the type of ATM uplink supported by the SCM.

When the SCM card is used in a Hotwire 8820 GrandSLAM chassis, it aggregates DSL traffic from each of the DSL port cards in the chassis on the chassis' backplane bus and concentrates it onto an ATM interface. The model number of the SCM card differs, depending on what type of ATM uplink childcard is being used.

SCM Card Model	ATM Uplink Childcard
8021	DS3
8022	OC3 with multi-mode fiber
8023	OC3 with single-mode fiber for immediate reach (15 km)
8024	OC3 single-mode fiber for long reach (40 km)
8025	DS3

Product Documentation Online

Complete documentation for this product is available at www.paradyne.com.
Select *Library* → *Technical Manuals* → *Hotwire DSL & MVL Systems*.

Select the following documents:

8000-A2-GB22

*Hotwire Management Communications Controller (MCC) Card,
IP Conservative, User's Guide*

8000-A2-GB26

*Hotwire MVL, RADSL, IDSL, and SDSL Cards, Models 8310/8312,
8510/8373/8374, 8303/8304, and 8343/8344, User's Guide*

8000-A2-GB27

Hotwire Network Design Guide: Bridged Model

8021-A2-GB20

Hotwire Shelf Concentration Module (SCM) Card User's Guide

Contact your sales or service representative to order a paper copy of a Paradyne document:

- Within the U.S.A., call 1-800-PARADYNE (1-800-727-2396)
- Outside the U.S.A., call 1-727-530-8623

SCM Card Installation Planning

- The Hotwire 8820 GrandDSLAM chassis is shipped with the following installation document:

Document Number	Document Title
8820-A2-GN20	<i>Hotwire 8820 GrandDSLAM Installation Guide</i>

- Refer to the installation guide to:
 - Install and set up the Hotwire GrandDSLAM chassis
 - Install the SCM card
 - Connect cables
- After the SCM card is installed, there are configuration procedures that must be performed before you can begin to use the DSL port cards for Internet or intranet connectivity. Refer to the *Hotwire MVL, RADSL, IDSL, and SDSL Cards User's Guide* and the *Hotwire Shelf Concentration Module (SCM) Card User's Guide* for detailed configuration procedures. Access these documents using the instructions in [Product Documentation Online](#).

Installing the SCM Card

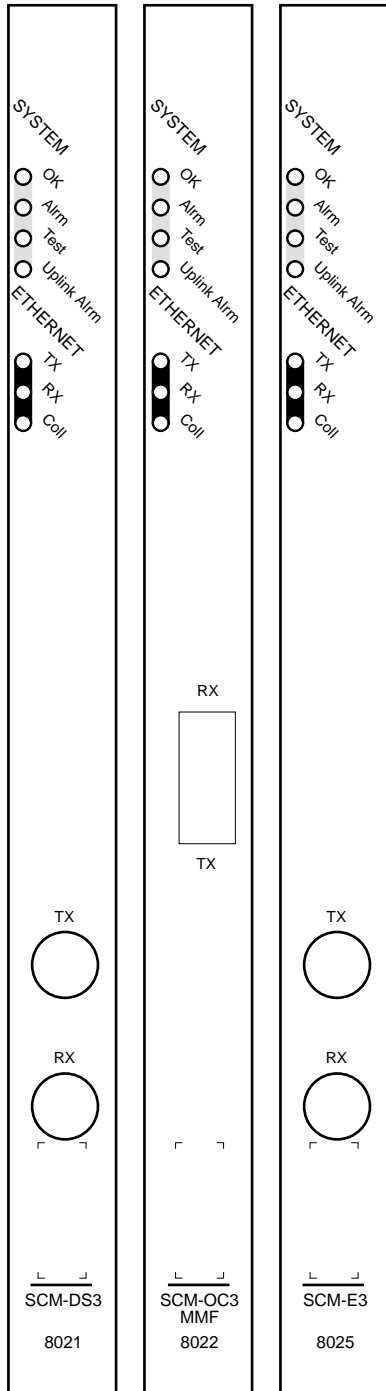
► Procedure

To install the Hotwire SCM Card in Slot A of the GrandSLAM chassis:

1. If there is a filler plate covering the slot, remove it.
2. Insert the card into the card guides of the slot on the chassis.
3. Carefully slide the card into the slot. Lift the insertion/ejection levers away from the faceplate until the card begins to engage the connectors on the backplane. Then press in on the insertion/ejection levers until the card is fully seated.
4. Verify that the OK SYSTEM indicator on the card's faceplate is ON (winking green). If not, refer to the *Hotwire 8820 GrandSLAM Installation Guide*.
5. Secure the card by fastening the screws on each end of the faceplate. This is required to maintain proper gasket pressure on the faceplate as well as proper air flow.
6. Attach DS3, OC3, or E3 connections to the uplink.

SCM Card LEDs

The following table describes the meaning and states of the LEDs on the Hotwire SCM card faceplate. Example faceplates are shown at left.



99-16634

99-16635

00-16803

Type	LED	LED is . . .	Indicating . . .
SYSTEM	OK	Green, Winking	Card functioning normally. Winking describes a recurring pulse when the LED is ON longer than OFF at a ratio of approximately 10:1.
		Green, On	SCM card failure. System processing functions have stopped.
		Off	No power to card.
	Alrm	Yellow, On	Alarm is present on SCM.
		Off	No alarms.
	Test	Yellow, On	Test in progress.
		Off	No tests.
	Uplink Alarm	Yellow, On	Alarm is present on the ATM uplink.
		Off	No alarms.
ETHERNET	TX	Green, Blinking	Packets are being transmitted. LED blinks on and off about five times per second.
		Off	Inactive.
	RX	Green, Blinking	Packets are being received. LED blinks on and off about five times per second.
		Off	Inactive.
	Coll	Off	Normal operation.
		Yellow, Blinking	A collision has been detected. LED blinks on and off about five times per second.

SCM Card Technical Specifications

Specifications	Criteria*
Size	Length: 10.4 inches (26.42 cm) Height: 11.15 inches (28.32 cm) Width: 1.0 inches (2.54 cm)
Weight	Approximately 1.4 lbs. (0.64 kg)
Approvals Safety Certifications	Refer to the equipment's label for approvals on product.
Power	The SCM card contains a DC-to-DC converter that requires 48V power input. The 48V power is distributed through the Hotwire chassis backplane. Typical Power Dissipation = 26 watts (DS3 and E3) or 28 watts (OC3)
Physical Environment Operating temperature Storage temperature Relative humidity Shock and vibration	14° to 140° F (-10° to 60° C) -4° F to 158° F (-20° C to 70° C) 5% to 85% (noncondensing) Withstands normal shipping and handling.

* Criteria of technical specifications are subject to change without notice.

Warranty, Sales, Service, and Training Information

Contact your local sales representative, service representative, or distributor directly for any help needed. For additional information concerning warranty, sales, service, repair, installation, documentation, training, distributor locations, or Paradyne worldwide office locations, use one of the following methods:

- **Internet:** Visit the Paradyne World Wide Web site at www.paradyne.com. (Be sure to register your warranty at www.paradyne.com/warranty.)
- **Telephone:** Call our automated system to receive current information by fax or to speak with a company representative.
 - Within the U.S.A., call 1-800-870-2221
 - Outside the U.S.A., call 1-727-530-2340

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