



Hotwire® Shelf Concentration Module (SCM) Card Installation Instructions

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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)

Product Documentation on the World Wide Web

We provide complete product documentation online. This lets you search the documentation for specific topics and print only what you need, reducing the waste of surplus printing. It also helps us maintain competitive prices for our products.

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, and Packet SDSL Cards, Models 8310/8312, 8510/8373/8374, 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 GrandSLAM chassis is shipped with the following installation document:

Document Number

Document Title

8820-A2-GN20

Hotwire 8820 GrandSLAM Installation Guide

- Refer to the installation guide to:
 - Install and set up the Hotwire GrandSLAM 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 and Packet 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 on the World Wide Web*.

Installing the SCM Card

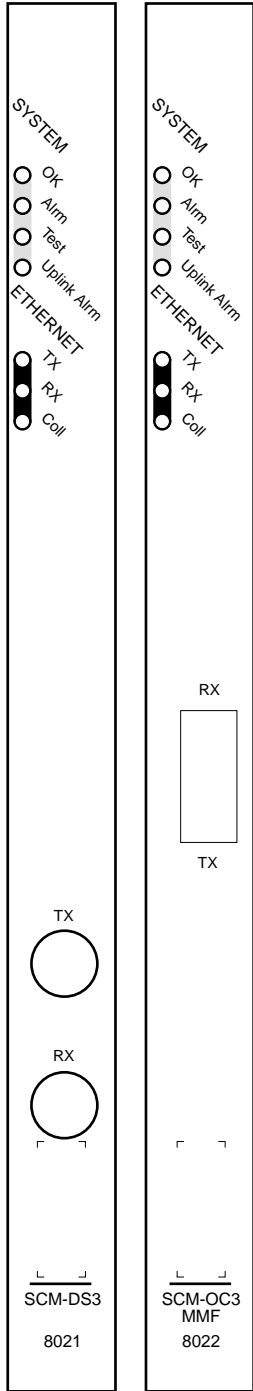
► Procedure

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 DS-3 or OC-3 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.



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.
	Alarm	Yellow, On	Alarm is present on SCM.
		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.
ETHERNET	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: 0.8 inches (2.03 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) or 28 watts (OC3)
Physical Environment Operating temperature Storage temperature Relative humidity Shock and vibration	32° to 122° F (0° to 50° 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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