PARADYNE®

Hotwire® 8373/8374 RADSL Cards with Ferrite Chokes

Installation Instructions

Document Number 8373-A2-GZ42-00

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What is a Hotwire 8373/8374 RADSL Card?

A Hotwire® Rate Adaptive Digital Subscriber Line (RADSL) card is a circuit card assembly that contains 12 ports, an interface to the Network Service Provider (NSP), and a processor. The processor controls the RADSL ports and forwards the packet traffic to and from the uplink and RADSL interfaces.

When the RADSL card is used in a Hotwire Digital Subscriber Line Access Multiplexer (DSLAM) or 8820 GranDSLAM chassis and connected to a Hotwire 5620 Remote Termination Unit (RTU) or 6371 DSL Router, it provides high-speed Internet or intranet access over traditional twisted-pair telephone wiring.

RADSL Card	Chassis Type	Uplink Interface Type
8373	8610/8810 DSLAM or 8820 GranDSLAM	Ethernet
8374	8820 GranDSLAM	ATM via SAR childcard

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, IDSL, and Packet SDSL Cards, Models 8310/8312, 8510/8373/8374, 8323/8324, and 8343/8344, User's Guide

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

RADSL Card Installation Planning

- Each Hotwire chassis is shipped with one of the following installation documents:

Document Number	Document Title
8610-A2-GN10	*Hotwire 8610 DSLAM Installation Instructions*
8810-A2-GN11	*Hotwire 8810 DSLAM Installation Instructions*
8820-A2-GN20	*Hotwire 8820 GranDSLAM Installation Guide*

- Refer to one of the above installation documents to:
  - — Install and set up the Hotwire DSLAM or GranDSLAM chassis
  - — Install the Hotwire 8373/8374 RADSL Card
  - — Connect cables

- After the RADSL card is installed, there are configuration procedures that must be performed before you can begin to use the RADSL cards for Internet or intranet connectivity. Refer to the *Hotwire MVL, RADSL, IDSL, and Packet SDSL Cards User's Guide* for detailed configuration procedures. Access this document using the instructions in *Product Documentation on the World Wide Web*.

Installing the RADSL Card

▶ Procedure

To install the Hotwire 8373/8374 RADSL Card in a Hotwire 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. For the 8610 DSLAM, ensure that the components are facing up.
3. Carefully slide the card into the slot. Gently, but firmly, push the card until it engages its mating connectors on the backplane.
4. Verify that the OK SYSTEM indicator on the card's faceplate is ON (green). If not, refer to the appropriate chassis installation document.
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.

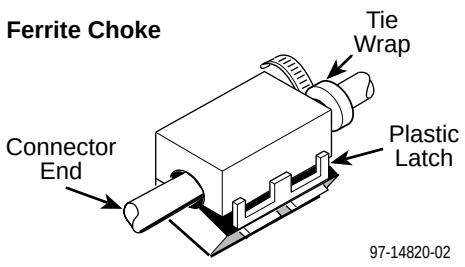
Installing the Ferrite Chokes

In configurations such as yours where Bell Core GR-1089 section 3 compliance is required, you must install four ferrite chokes on the 50-pin DSL cable.

▶ Procedure

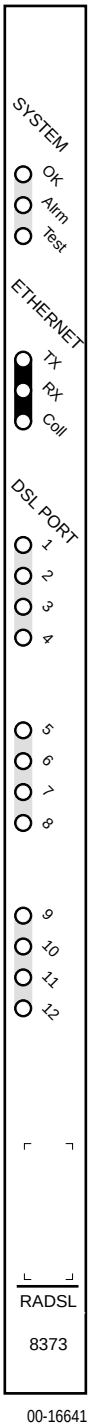
To install the ferrite chokes onto the 50-pin DSL cable:

1. Open the first ferrite choke and place it around the cable as close to the cable connector on the chassis as possible.
2. Close the two halves around the cable and snap the choke shut, pressing down on the plastic latch to secure it in place.
3. Repeat Steps 2 and 3 for each of the rest of the supplied chokes. Place all four chokes close together on the cable.
4. Add a tie wrap after the last choke as shown to prevent the ferrite chokes from slipping down the cable.



8373 RADSL Card LEDs

The following table describes the meaning and states of the LEDs on the Hotwire 8373 RADSL card faceplate.



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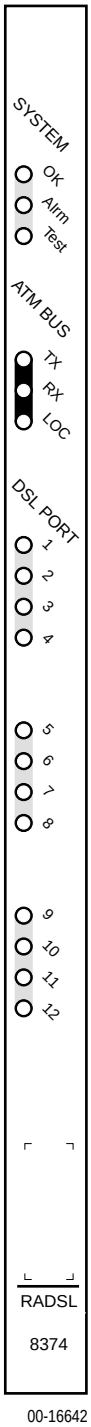
Type	LED	LED is . . .	Indicating . . .
SYSTEM	OK	Green, Winking	Card functioning normally. Winking describes a recurring pulse when the LED is ON longer than OFF at a ratio of approximately 10:1.
		Green, On	RADSL card failure. System processing functions have stopped.
		Off	No power to card.
	Alrm	Yellow, On	Alarm is present on RADSL card. Ethernet (eth1) interface is not being detected.
		Off	No alarms.
	Test	Yellow, On	Test in progress.
		Off	No tests.
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.
DSL PORT	1 – 12	Green, On	DSL link is up.
		Off	DSL link is disabled.
		Green, Blinking	Port test or DSL handshaking is in progress. LED blinks on and off about five times per second.
		Green, Reverse Winking	DSL link is down. Reverse winking describes a recurring pulse when the LED is OFF longer than ON at a ratio of approximately 16:1.

8374 RADSL Card LEDs

The following table describes the meaning and states of the LEDs on the Hotwire 8374 RADSL card faceplate.



00-16642

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	RADSL card failure. System processing functions have stopped.
		Off	No power to card.
	Alrm	Yellow, On	Alarm is present on RADSL card.
		Off	No alarms.
	Test	Yellow, On	Test in progress.
		Off	No tests.
ATM BUS	TX	Green, Blinking	RADSL card has placed cells on the bus. LED blinks on and off 2–4 times per second.
		Off	Inactive.
	RX	Green, Blinking	RADSL card has received cells from the bus. LED blinks on and off 2–4 times per second.
		Off	Inactive.
	LOC	Off	Normal operation.
		Yellow, On	SAR not receiving a clock signal from the GranDSLAM backplane.
DSL PORT	1 – 12	Green, On	DSL link is up.
		Off	DSL link is disabled.
		Green, Blinking	Port test or DSL handshaking is in progress. LED blinks on and off about five times per second.
		Green, Reverse Winking	DSL link is down. Reverse winking describes a recurring pulse when the LED is OFF longer than ON at a ratio of approximately 16:1.

RADSL 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 RADSL card contains a dc-to-dc converter that requires –48V power input. The –48V power is distributed through the Hotwire chassis backplane. Maximum Power Dissipation = 18 watts
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.	

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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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