



Hotwire® 8546 RADSL Card Installation Instructions

Document Number 8546-A2-GN10-50

April 2000

What is a Hotwire® 8546 RADSL Card?

A Hotwire 8546 Rate Adaptive Digital Subscriber Line (RADSL) card is a circuit card assembly that contains four RADSL ports, an Ethernet 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 Ethernet and RADSL interfaces.

When the 8546 RADSL card is used in a Hotwire 8600, 8610, 8800, or 8810 Digital Subscriber Line Access Multiplexer (DSLAM) or 8820 GrandSLAM chassis and connected to a Hotwire 5446 Remote Termination Unit (RTU), it provides high-speed Internet or intranet access over traditional twisted-pair telephone wiring.

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-GB20

Hotwire 8540 and 8546 RADSL Cards User's Guide

8000-A2-GB21

Hotwire 8540 and 8546 RADSL Cards Network Configuration Guide

8000-A2-GB29

Hotwire Management Communications Controller (MCC) 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

8546 RADSL Card Installation Planning

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

Document Number	Document Title
8600-A2-GN20	<i>Hotwire 8600 Digital Subscriber Line Access Multiplexer (DSLAM) Installation Guide</i>
8610-A2-GN10	<i>Hotwire 8610 DSLAM Installation Instructions</i>
8800-A2-GN21	<i>Hotwire 8800 Digital Subscriber Line Access Multiplexer (DSLAM) Installation Guide</i>
8810-A2-GN11	<i>Hotwire 8810 DSLAM Installation Installations</i>
8820-A2-GN20	<i>Hotwire 8820 GrandDSLAM Installation Guide</i>

- Refer to one of the DSLAM or GrandDSLAM installation documents to:
 - Install and set up the Hotwire DSLAM or GrandDSLAM
 - Install the Hotwire 8546 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 DSLAM for 8540 and 8546 DSL Cards User's Guide* for detailed configuration procedures.

Installing the 8546 RADSL Card

► Procedure

To install the Hotwire 8546 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 8600/8610 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.

Ferrite Choke Installation

A ferrite choke is shipped with all 8546 RADSL cards, but is only needed when this card is installed in the Hotwire 8820 GranDSLAM chassis. The choke installs onto the 50-pin telephone network cable.

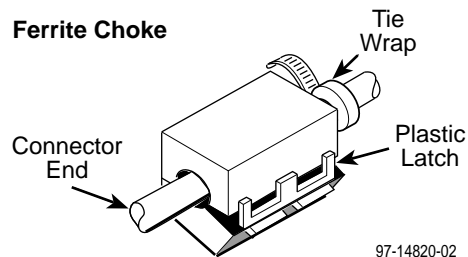
CAUTION:

All ferrite chokes that are supplied must be installed following these instructions to ensure compliance with FCC Part 15 FCC Rules and other EMI requirements.

► Procedure

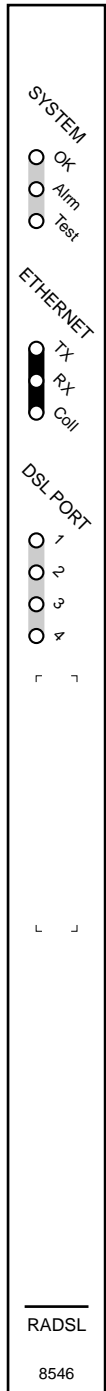
To install the ferrite choke onto the 50-pin DSL cable:

1. Open the ferrite choke and place it around the cable as close to the cable connector on the GranDSLAM 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. Add a tie wrap (not included) as shown to prevent the ferrite choke from slipping down the cable.



8546 RADSL Card LEDs

The following table describes the meaning and states of the LEDs on the 8546 RADSL card faceplate.



Type	LED	LED is . . .	Indicating . . .
SYSTEM	OK	Green, Winking*	Normal operation; card functioning normally.
		On	8546 RADSL card failure. System processing functions have stopped.
		Off	No power to card.
	Alarm	On	Alarm present on 8546 RADSL card. Ethernet (e1a) interface is not being detected. No alarms.
	Test	Yellow Off	Test in progress. No tests.
ETHERNET	TX	Green, Blinking	A packet is being sent.
		Off	Inactive.
	RX	Green, Blinking Off	A packet is being received. Inactive.
	Coll	Off Blinking	Normal operation. A collision has been detected.
DSL PORT	1, 2, 3, and 4	Green	Link is up.
		Off	DSL link is down or disabled.
		Yellow	DSL handshake and PPP startup in progress.
* Winking describes a recurring pulse when the LED is ON longer than OFF at a ratio of approximately 10:1.			

8546 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	Approx. 1.4 lbs.
Approvals Safety Certifications	Refer to the equipment's label for approvals on product.
Power	The DSL card contains a dc-to-dc converter that requires -48V power input. The -48V power is distributed through the Hotwire DSLAM 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.	

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

Document Feedback

We welcome your comments and suggestions about this document. Please mail them to Technical Publications, Paradyne Corporation, 8545 126th Ave. N., Largo, FL 33773, or send e-mail to userdoc@paradyne.com. Include the number and title of this document in your correspondence. Please include your name and phone number if you are willing to provide additional clarification.

Trademarks

Hotwire is a registered trademark of Paradyne Corporation. All other products and services mentioned herein are the trademarks, service marks, registered trademarks, or registered service marks of their respective owners.