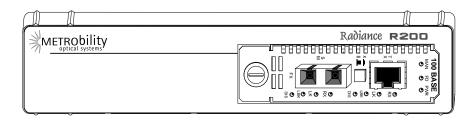


RADIANCE R200 PREMISE SERVICE PLATFORM



Installation & User Guide

Models: R200-AC / R200-DC

Radiance Series

R200:	
R200-AC	Single slot platform with internal AC power supply
R200-DC	Single slot platform with internal DC power supply
Accessories:	NACH CONTRACTOR
R200-WM	Wall mounting bracket
The following is a listing	ng of available Radiance products. Refer to each p

The following is a listing of available Radiance products. Refer to each product's installation and user guide for operational features.

Platforms:

R400 Premise Service Platform R1000 Premise Service Platform R5000 Central Service Platform

Line Cards:

10Mbps Gigabit

Copper to coax Fiber to fiber Copper to fiber Copper to fiber

Redundant SONET

100Mbps Fiber to fiber

Copper to fiber T1/E1

Fiber to fiber Copper to fiber

Redundant T3/E3

Access Coax to Fiber

10/100Mbps

Copper to copper Copper to fiber Fiber to fiber

Management:

7501-M	Management card with single Ethernet interface
R502-M	Management card with dual Ethernet interfaces
NetBeacon™	Management software

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The Radiance R200 Premise Service Platoform is the ideal solution for the installation of a single Radiance access line card at a remote site. While the R200 supports all single-slot interface line cards, it provides an especially cost effective way to manage a standalone access line card at the customer site. The R200 features a solid metal housing and an internal AC or DC power supply. With its compact design and optional wall mounting bracket, the R200 fits into any type of office environment, even locations where shelving is unavailable.

Metrobility's carrier class solutions provide seamless connectivity with all major switch and router manufacturers and offer a flexible option for fiber connectivity while reducing costs and adding functionality.

The R200 Premise Service Platform provides the following key features:

- Support for any single-slot, hot-swappable Radiance interface line card, including the access line card.
- Internal AC or DC power supply.
- · Optional wall mounting bracket.
- Strict standards compliance ensuring compatibility with other vendors' equipment for flexible connectivity.

Related Documentation

Refer to the following documents for additional information:

- Radiance 10Mbps Single Interface Line Cards Installation & User Guide
- Radiance 100Mbps Single Interface Line Cards Installation & User Guide
- Radiance 10Mbps Redundant Interface Line Cards Installation & User Guide
- Radiance 100Mbps Redundant Interface Line Cards Installation & User Guide
- Radiance 10/100Mbps Interface Line Cards Installation & User Guide
- Radiance Gigabit Single Interface Line Cards Installation & User Guide
- Radiance SONET Single Interface Line Cards Installation & User Guide
- Radiance Access Line Cards Installation & User Guide
- Radiance T1/E1 Single Interface Line Cards Installation & User Guide
- Radiance T3/E3 Single Interface Line Cards Installation & User Guide
- · Command Line Interface Reference Guide
- NetBeacon Element Management Software Installation & User Guide
- WebBeacon Management Software Installation & User Guide



Follow the simple steps outlined in this section to install and start using the Radiance R200 Premise Service Platform.

NOTE: Electrostatic discharge precautions should be taken when handling any line card. Proper grounding is recommended (i.e., wear a wrist strap).

Unpack the Platform and Accessories

Check that the following components are included:

- Radiance R200 Premise Service Platform
- 1 power cord (R200-AC only)
- 4 rubber feet
- DC power plug connector (R200-DC only)

The following items are available separately:

- · Radiance interface line cards
- · Wall mounting bracket

Your order has been provided with the safest possible packaging, but shipping damage does occasionally occur. Inspect it carefully. If you discover any shipping damage, notify the carrier and follow their instructions for damage and claims. Save the original shipping carton if return or storage of the unit is necessary.



Choose an Appropriate Location

The Radiance R200 is intended for use in office and industrial environments. Attach the four rubber feet to the bottom of the unit and place it on a flat surface. The feet provide a space for air circulation.

The R200 may be oriented in any manner that allows you to make the physical connection to the power source and leaves a minimum of six (6) inches of space around it for proper ventilation.

The R200-AC must be located within six (6) feet of the AC power source being used and placed as far away as possible from electrical noise generating equipment such as copiers, electrostatic printers and other motorized equipment. If exposed twisted-pair wiring is used nearby, the wiring should be routed as far away as possible from power cords and data cables to minimize interference.



Install the Line Card

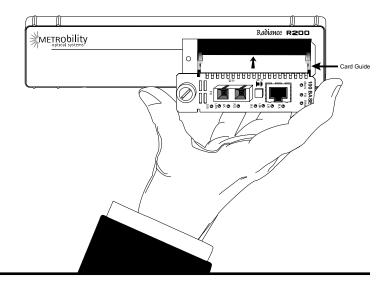
The R200 Premise Service Platform supports one single-slot Radiance interface line card. A Radiance line card offers the ease of plug-and-play installation and is hot-swappable. Refer to the card's documentation for detailed installation instructions.

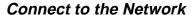
Before installing any card, note the following:

- Remove the temporary slot protector by turning the thumb screw counterclockwise and removing the blank panel.
- Set all switches and/or jumpers on the line card. Refer to the card's documentation for a complete description of its settings.

Follow the simple steps outlined below to install the line card:

- Grasp the card by the front panel as shown (thumb screw to the left).
- Line the edges of the board with the slot guides and slide the card in until the edges are flush and even with the front of the unit. Do not force the card into the slot. It should slide in easily and evenly.
- Secure to the R200 by turning the thumb screw clockwise until snug.
 The line card is now ready for connection to the network.





To connect to the network, refer to the card's installation and user guide for information about the cable types and lengths supported.

Attach the Grounding Lug (R200-DC Only)

On the back panel, the R200-DC has a small hole where a grounding lug must be installed. The hole is marked with the grounding symbol. Use a 6-32 screw to fasten the lug (not provided) to the platform. Connect the other end of the grounding lug wire to the grounding point at your site.

Apply Power to the Platform

Power connections are located on the rear of the R200.

DC Power Supply Connections

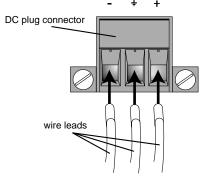
IMPORTANT

- For installation in a restricted access location only.
- A readily accessible disconnect device must be incorporated in the building installation wiring.

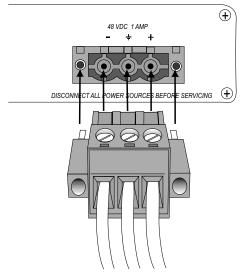
The R200-DC provides a three-position inverted header with screw flanges (Phoenix Contact Combicon part number 1776511). For proper connection to the power source, the header requires a plug connector (Phoenix Contact Combicon part number 1777992 or equivalent). **NOTE:** The plug connector is supplied with the R200. The input wire leads are NOT supplied.

For DC connections, follow these guidelines: *IMPORTANT: Turn off the DC voltage source before beginning.*

• Connect the wire leads from the voltage source to the appropriate terminal on the plug connector and tighten the screws to secure the wires in place.



• Insert the plug connector into the header on the R200 and tighten the two screws.



- Turn ON the DC voltage source.
- Verify proper power connection and operation by observing that the power (PWR) LED on the line card is lit.

AC Power Supply Connections

For AC connections, follow these guidelines:

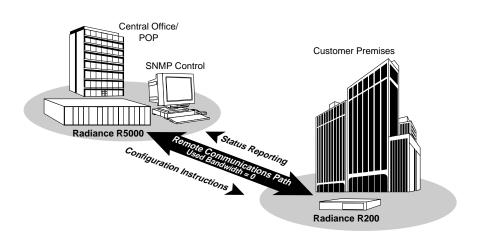
- Insert the power cord to the receptacle on the R200-AC.
- Connect the power cord plug to the AC power source.
- Verify proper power connection and operation by observing that the power (PWR) LED on the line card is lit.

This section contains information regarding the technical specifications and warranty for the Radiance R200 Premise Service Platform.

Platform Technical Specifications

Power	
Input	
R200-AC	100-250V AC, 50/60Hz
R200-DC	48V DC (SELV)
Output	
Environmental	
Operating Temperature	0° to 50° C
Storage Temperature	-25° to 70° C
Relative Humidity	5% to 95% non-condensing
Physical Case	Fully enclosed metal construction
Dimensions	5.5"L x 7.5"W x 1.5"H
	14 cm x 19 cm x 3.8 cm
Weight	2.5 lb, 1.13 kg

Topology Solutions



Product Safety, EMC and Compliance Statements

This equipment complies with the following requirements:

- UL
- CSA
- CE
- EN60950 (safety)
- FCC Part 15, Class A
- EN55022-A (emissions)
- EN55024: 1998 (immunity)
- DOC Class A (emissions)

This product shall be handled, stored and disposed of in accordance with all governing and applicable safety and environmental regulatory agency requirements.

The following *FCC* and *Industry Canada* compliance information is applicable to North American customers only.

USA FCC Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Radio Frequency Interference Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

Warranty and Servicing

Three-Year Warranty for the Radiance R200 Premise Service Platform Metrobility Optical Systems, Inc. warrants that every Radiance product will be free from defects in material and workmanship for a period of THREE YEARS from the date of Metrobility shipment. This warranty covers the original user only and is not transferable. Should the unit fail at any time during this warranty period, Metrobility will, at its sole discretion, replace, repair, or refund the purchase price of the product. This warranty is limited to defects in workmanship and materials and does not cover damage from accident, acts of God, neglect, contamination, misuse or abnormal conditions of operation or handling, including overvoltage failures caused by use outside of the product's specified rating, or normal wear and tear of mechanical components.

To establish original ownership and provide date of purchase, complete and return the registration card or register the product online at www.metrobility.com. This warranty will not go into effect until the warranty registration has been received by Metrobility.

To return a defective product for warranty coverage, contact Metrobility Customer Service for a return materials authorization (RMA) number. Send the defective product postage and insurance prepaid to the address provided to you by the Metrobility Technical Support Representative. Failure to properly protect the product during shipping may void this warranty. The Metrobility RMA number must be clearly on the outside of the carton to ensure its acceptance.

Metrobility will pay return transportation for product repaired or replaced inwarranty. Before making any repair not covered by the warranty, Metrobility will estimate cost and obtain authorization, then invoice for repair and return transportation. Metrobility reserves the right to charge for all testing and shipping costs incurred, if test results determine that the unit is without defect.

This warranty constitutes the buyer's sole remedy. No other warranties, such as fitness for a particular purpose, are expressed or implied. Under no circumstances will Metrobility be liable for any damages incurred by the use of this product including, but not limited to, lost profits, lost savings, and incidental or consequential damages arising from the use of, or inability to use, this product. Authorized resellers are not authorized to extend any other warranty on Metrobility's behalf.

Product Manuals

The most recent version of this manual is available online at http://www.metrobility.com/support/manuals.htm

To obtain additional copies of this manual, contact your reseller, or call 1.877.526.2278 or 1.603.880.1833

Product Registration

To register your product, go to http://www.metrobility.com/support/registration.asp



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