

DC/DC Converter 4RU Plug-In Card

4RU Industrial Hardened Card Provides
75-Watts @ 24 or 48VDC Power

Description

The RLH 4RU DC/DC converter card provides isolated 24 or 48 VDC output, designed to power up to twelve (12) RLH Fiber Optic Link Cards.

The card is mounted via guide rails into any compatible RLH card housing. There are several wall, rack and DIN mount housings available for the 4RU cards. Contact your RLH sales representative or visit the RLH website to learn more.

The converter is protected by a user replaceable fuse that is located on the card. The DC/DC converter card has convenient status LED's on the card to indicate DC input and the DC output.

The 4RU DC/DC Converter Card is covered by our **Exclusive Unconditional Lifetime Warranty**.

Key Features

- **Exclusive Unconditional Lifetime Warranty**
- Compact, single slot, regulated DC power solution
- Fits all RLH 4RU card housings
- Convenient status LED's
- Connect up to 12 RLH 4RU cards
- 12, 24 & 130 VDC input models available
- -40° to +70°C Rating



RLH 4RU DC/DC Converter Card

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General Safety Practices

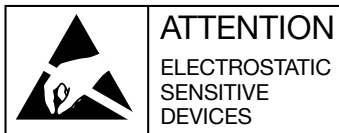
The equipment discussed in this document may require tools designed for the purpose being described. RLH recommends that service personnel be familiar with the correct handling and use of any installation equipment used, and follow all safety precautions including the use of protective personal equipment as required.

Caution - Severe Shock Hazard

- Never install during a lightning storm or where unsafe high voltages are present.
- Wires may carry high DC voltages. Use caution when handling copper wiring.

Special Handling Requirements

Be careful when handling electronic component



- This product contains static sensitive components.
- Handle the cards at their edges only.
- Follow proper electrostatic discharge procedures.

This card utilizes circuitry that can be damaged by static electricity. When transporting the card, carry it in an ESD safe container such as the antistatic bag provided with the card. Before handling cards, discharge yourself of static electricity by physical bodily contact with earth ground. When handling cards, hold by outer edges and avoid touching circuitry. Failure to follow ESD precautions may cause serious damage to the card and prevent proper operation.

Warning

The intra-building port(s) of the equipment or subassembly is suitable for connection to intrabuilding or unexposed wiring or cabling only. The intra-building port(s) of the equipment **MUST NOT** be metallically connected to interfaces that connect to the OSP or its wiring. These interfaces are designed for use as intra-building interfaces only (Type 4 ports as described in GR-1089-CORE, Issue 4) and require isolation from the exposed OSP cabling. The addition of Primary Protectors is not sufficient protection in order to connect these interfaces metallically to OSP wiring.

Installation

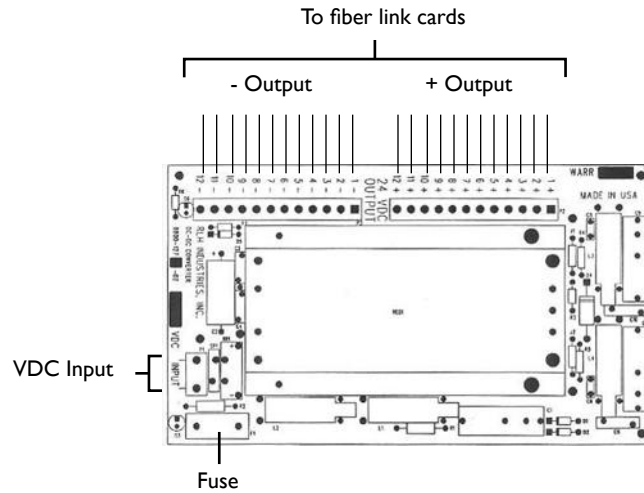
Prior to installation:

- Check for shipping damage
- Check the contents to ensure correct model
- Have a clean, dry installation environment ready

Required for installation:

- RLH 4RU card housing
- Multimeter

Connect the Fiber Optic Link Cards to Green positive (+) and Black negative (-) screw down terminals on the converter.

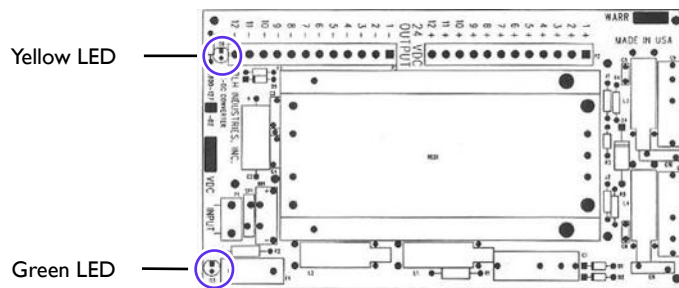


Connection Diagram

Install converter card into RLH card housing. Connect the DC source to the INPUT terminal located at bottom right of the converter card. The DC input is not polarity sensitive, therefore it is not marked plus (+) or minus (-).

Note: DC OUTPUT connections are energized when DC INPUT is connected.

- The green DC INPUT LED will be ON when input power is applied.
- The yellow DC OUTPUT LED will be ON to indicate the output power.



LED Diagram

Troubleshooting

If trouble is encountered, verify connections, signal and voltage levels. If trouble persists, replace the unit and retest. If technical assistance is required, contact RLH Industries, Inc. technical support department.

Ordering Information

RLH Fiber Optic Link products are available directly through RLH Industries, Inc. or its distributors nationwide.

Each DC/DC Converter Card is identified with the part number.

Card Type	Part Number	DC Input	DC Output	Max. Output Current	Fuse
130/48V	8806-1276-02NH	100 -180V	48V	1.1 Amps	2A
130/24V	8806-1275-02NH	100 -180V	24V	2.2 Amps	2A
48/24V	8806-1278-02NH	42-60V	24V	2.2 Amps	6A
24/48V	8806-1266-02NH	21-32V	48V	1.1 Amps	6A

General Specifications

Maximum Output Power	50 Watts
LED Indicators	Green Input Voltage
	Yellow Output Voltage
Input-Output Isolation	2500V
Maximum Capacity	12 Outputs (for up to 12 fiber link cards)
Dimensions	7" x 4" x 1" Standard RLH 4RU Plug-in card Form Factor
Operation Temperature	-40° F to +158° F (-40°C to +70°C)
Cooling	Convection
Warranty	Exclusive Unconditional Lifetime Warranty

Specifications subject to change without notice.

Warranty

RLH is recognized throughout the U.S. and offers the only **UNCONDITIONAL LIFETIME WARRANTY** in the telecommunications industry. We are very proud of our warranty which simply states that our Fiber Optic Link Assemblies are warranted to be free of defects in material and workmanship for the **LIFE OF THE PRODUCT**.

We can offer this warranty because:

- We believe our customers shouldn't have to incur additional costs due to failure or damage
- We engineer and manufacture our Fiber Optic Links in the USA, with total confidence in our quality
- We understand how safety and reliability impact the total cost of ownership
- We know that customer support extends beyond the initial sale, so **we stand behind our products**

RLH will replace any product, or part thereof, that fails **FOR ANY REASON**, provided the defective part is returned to RLH Freight prepaid. This warranty is **UNCONDITIONAL** and valid even when RLH Fiber Optic Link Assemblies have been abused or mishandled, where unauthorized repairs have been attempted or performed, or product has been damaged as a result of a natural disaster. Compare this warranty to our competitors and see how our warranty will reduce your costs and simplify your maintenance activities.

To make a warranty claim, or schedule repair or replacement of your RLH product, please contact us for an RMA number. You will be promptly assisted by one of our warranty specialists. All returns must have an RMA number before we can receive any items.

Technical Support

Normal technical support: (Mon - Fri 6am - 6pm PST)	Local (714) 532-1672 Toll Free (800) 877-1672 Toll Free (866) DO-FIBER
24/7 Technical support:	(714) 396-8982 (714) 457-5740

Contact Information

Corporate Headquarters:	RLH Industries, Inc. 936 N. Main Street Orange, CA 92867 USA
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RLH FIBER OPTIC LINK

RLH Industries, Inc. The Leader in Fiber Optic Telecom Isolation Technology

LIFETIME

UNCONDITIONAL WARRANTY

RLH INDUSTRIES, INC. FIBER OPTIC LINK assemblies are warranted to be free of defects in materials and workmanship for the life of the product. This lifetime warranty is effective for RLH products sold from February 2, 1988, to the present, with the exception of fiber optic cable assemblies which are warranted only to be free of defects in manufacturing and batteries, which carry a 5-year unconditional replacement warranty.

RLH Industries, Inc. will repair or replace any product, or part thereof, that fails for any reason, provided the defective part is returned to RLH, freight prepaid.

This warranty is **UNCONDITIONAL** and is valid even when RLH Fiber Optic Link assemblies have been abused or mishandled, where unauthorized repairs have been attempted or performed, or product has been damaged as a result of a natural disaster.

Authorized by: *J. Randall Mears*
J. RANDALL MEARS, Vice President, Engineering



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Please contact your RLH sales representative for pricing and delivery information.

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