

# **SERIES DL227**

## **10/100/1000M FIBER OPTIC TRANSCEIVER**

### ***USER MANUAL***

***Radiant Communications Corporation***

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# DL227 SERIES REV B – User Manual

## *Description:*

The DL227 Rev B converter is an IEEE 802.3ab compliant Gigabit Ethernet 1000Base-T unshielded twisted pair (UTP) to 1000Base-Sx or 1000Base-Lx fiber converter.

It features Auto-Negotiation which allows it to auto-adapt to the full/half duplex and flow control services as well as data rate (10/100/1000M) supported by the device connected to its 1000Base-TX port.

The 1000Base-TX port uses a modular EIA/TIA 568 RJ45 connector and supports category 5 or higher wiring with distances of up to 100m. (328ft.). Automatic polarity detection and correction assists in network installation and maintenance.

The DL227 Rev B operates in full-duplex. This feature maximizes the throughput when connecting to high bandwidth full-duplex devices such as servers or switches.

## *Troubleshooting:*

**Power LED not lit-** Check A/C power cord connections to and from unit.

**Data Link LED not lit-** Check Cat. 5 cable connections. Check Cat. 5 cable. Ensure the port on connecting device is enabled.

**Optical Link LED not lit-** Check light levels against spec. label. Check optical budget.

***NOTE – 1000MBS LED IS ONLY LIT WHEN PORT ON CONNECTING DEVICE IS SET AT 1000MBS. FDX LED IS ONLY LIT WHEN PORT ON CONNECTING DEVICE IS SET FOR FULL-DUPLEX.***

## **SPECIFICATIONS**

<b>Protocol:</b>	IEEE 802.3ab, 1000Base-T. 1000Base-X
<b>Connectors and Cables:</b>	
Twisted Pair UTP:	RJ45, Category 5 or higher
Fiber:	SC, SC/APC
Multimode:	50/125, 62.5/125 $\mu$ m
Single-Mode:	9/125 $\mu$ m
<b>Twisted Pair UTP Distance:</b>	100 m/ 328 ft.
<b>Fiber Distances:</b>	Check with factory

**LEDs:** POWER, DATA LINK, OPTICAL LINK,  
 1000MBS, FDX  
**Dimensions:** W 16" x D 12" x H 1.75"  
**Power:** 110-240VAC .65A 50/60Hz  
**Temperature:**  
     Operating: 0° to 70° C  
     Storage: -40° to 80° C  
**Humidity:** 0-90% (non-condensing)

## ORDERING INFORMATION

Part Number	Description	Wavelength	# of Fibers	Max Optical Atten.		Approx. Dist.
				62um	9um	
DL227/MM-X:	Media Converter	850nm	2	10db	-	0-2Km
DL227/SM-X:	Media Converter	1300nm	2	-	10db	0-25Km
DL227A/SM-X:	Media Converter	1310nm	1	-	10db	0-25Km
DL227A/SMHP-X:	Media Converter	1310/1550nm	1	-	18db	0-50Km

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