

▶ VBI50 L-Band Transmission System

▶ DESCRIPTION

The Radiant Model VBI50 L-Band fiber transport system transports RF signals between 950MHz and 2200MHz up to 50 km over a single optical fiber. The VBI50 reproduces the original RF signal at the receiving end of the link, the system remains format independent.

The VBI50 is a high performance, cost-effective solution for transporting L-Band signals over single mode fiber. The links have low noise characteristics (CNR up to 50 dB or better), a wide temperature range (-40° to +75°C) and are easy to install. The pass band is flat within +/-2 dB over and 500 MHz range.

Unit will power LNB through coax with optional +13 or +17 VDC user choice.

Options are available for units to be housed in 1RU rackmount or a 3RU high card cage option that can house 6 to 7 units depending on use of redundant power supplies.

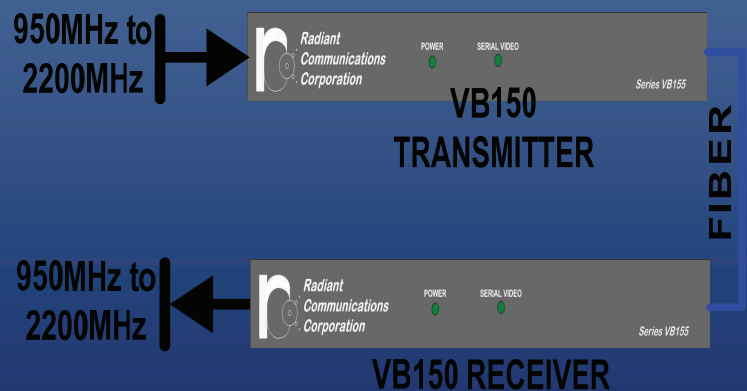


▶ BENEFITS

Protocol transparent -transmits video, audio &/or data
LNB Power through
Transmission distances up to 50 km

▶ FEATURES

Broadband transmission from 950 to 2200 MHz
75ohm models
Options for CWDM transport



**Radiant
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2/2008

▶ VBI50 L-Band Transmission System

SPECIFICATIONS

Electrical @25° C

Frequency Response:	900 –2200 MHz
Input/Output Impedance:	75 Ohm Models (F Connector)
Input/Output Voltage Standing Wave Ratio:	1.8:1
Spur Free Dynamic Range:	109 dB/Hz
RF Link Gain:	0 dB
	contact factory for positive link gain
Input Noise Floor:	-133 dBm-Hz
Input Third Order Intercept:	30 dBm
Maximum RF Input to Transmitter:	+5 dBm

Optical

Wavelength:	1310nm, 1550nm- CWDM
Output Power (Typical):	1.5 mw
Input to Receiver:	4 mw (Maximum)
Optical Budget	10 dB
Number of Fibers:	1
Optical Connector:	SC/APC

General Characteristics

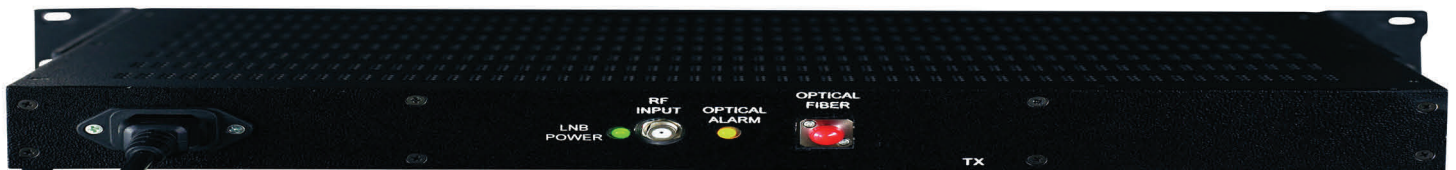
Power:	15W @ 90 to 240V AC
Operating Temp:	-40° to 75° C
Size:	Rackmount Card Cage
	17.0" W x 13.0"D x 1.75" H 2 Slots in CR200- 5.5" W x 7.0"D

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VB150S-T-XY3	L-Band 950MHz—2200MHZ, Transmitter	10 dB	25 km
VB150S-R-XY3	L-Band 950MHz—2200MHZ, Receiver	10 dB	25 km

Note:

- Specify X—packaging of the unit: U—IU rack mount, M—modular (standalone), R—card cage rack mount
- Specify Y—connector type: A—SC/APC
- Add -48 for 48VDC power
- For 1550nm, CWDM and DWDM versions contact factory
- Due to product enhancements, specifications are subject to change without notice



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