The Radiant Model VB150 L-Band fiber transport system transports RF signals between 950MHz and 2200MHz up to 50 km over a single optical fiber. The VB150 reproduces the original RF signal at the receiving end of the link, the system remains format independent.

The VB150 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.

**DESCRIPTION**

**FEATURES**

- Protocol transparent - transmits video, audio &/or data
- LNB Power through
- Transmission distances up to 50 km
- Broadband transmission from 950 to 2200 MHz
- 75ohm models
- Options for CWDM transport

**BENEFITS**

- Radiant Communications Corporation
- Phone: 908 757 7444 or 800 969 3427
- Fax: 908 757 8666
- E-mail: sales@rccfiber.com
- www.rccfiber.com
- P.O. Box 867
- South Plainfield
- NJ 07080
- USA
- 2/2008
**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
- 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 17.0” W x 13.0” D x 1.75” H
- Card Cage 2 Slots in CR200 - 5.5” W x 7.0” D

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>ATTENUATION</th>
<th>MAX DISTANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB150S-T-XY3</td>
<td>L-Band 950MHz—2200MHz, Transmitter</td>
<td>10 dB</td>
<td>25 km</td>
</tr>
<tr>
<td>VB150S-R-XY3</td>
<td>L-Band 950MHz—2200MHz, Receiver</td>
<td>10 dB</td>
<td>25 km</td>
</tr>
</tbody>
</table>

**Note:**
- Specify X—packaging of the unit: U—1U 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