The Radiant Communications VB115 Series can be ordered as a multimode or singlemode transmission system. The system can operate at distances of up to 140 km on singlemode fiber, and 10 km on multimode. The Series is capable of transmitting RS-250B Medium Haul video signals, and can be ordered as a standalone or rack mounted in our CR200 19" x 5.25" rack. The VB115 Series incorporates video presence status indicators in the transmitter and receiver, along with a fiber level indicator in the receiver. Like all Radiant Communications transmission systems, no adjustments are required at time of installation, or anytime thereafter.
**SPECIFICATIONS**

**Video**
- **Video Format:** NTSC, RS170, RS-250-B, PAL, SECAM, CCIR
- **Bandwidth:** 6 MHz, 8 bit video
- **Frequency Response:**
  - +0.2 dB @ 10 Hz to 500 Hz
  - +0.6 dB @ 3 MHz
  - +0.35 dB @ 3.58 MHz
  - +0.7 dB @ 4.2 MHz
  - +3.0 dB @ 6 MHz
- **Signal Level:** 1 volt peak to peak, 75 Ohms
- **Intermodulation:** <2%
- **SNR/CTN:** >60 db minimum 64 dB typical
- **I/O Level:** 75 Ohms
- **Electrical Connection:** BNC
- **Differential Phase:** <1.3° (10 to 90% APL)
- **Differential Gain:** <3% (10 to 90% APL)
- **Tilt:** <2%
- **Chrominance to Gain:** <± 4%
- **Luminance Delay:** 33 nanoseconds

**Optical**
- **Wavelength:** 850nm, 1310nm, 1550nm, CWDM, DWDM
- **Number of Fibers:** 1
- **Optical Connector:** SC/APC, SC, FC, FC/APC

**General Characteristics**
- **Power:** 0.25A @ 12 to 16 VDC
- **5 W @ 12-14 VAC**
- **Operating Temperature:** -20° to 50° C
- **Storage Temperature:** -40° to 85° C
- **Size:**
  - Rackmount 17.0" W x 13.0" D x 1.75" H
  - Module/can 4.0" W x 7.0" D x 2.0" H
  - Card Cage 2 Slots in CR200

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>ATTENUATION</th>
<th>MAX DISTANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB115M-T-XY8</td>
<td>Video Transmitter, 1 Fiber, Multimode 850 nm</td>
<td>12 dB</td>
<td>0-3 km</td>
</tr>
<tr>
<td>VB115M-R-XY8</td>
<td>Video Receiver, 1 Fiber, Multimode 850 nm</td>
<td>12 dB</td>
<td>0-3 km</td>
</tr>
<tr>
<td>VB115S-T-XY3</td>
<td>Video Transmitter, 1 Fiber, Singlemode 1310 nm</td>
<td>18 dB</td>
<td>0-50 km</td>
</tr>
<tr>
<td>VB115S-T-XY3</td>
<td>Video Receiver, 1 Fiber, Singlemode 1310 nm</td>
<td>18 dB</td>
<td>0-50 km</td>
</tr>
</tbody>
</table>

**Note:**
- Specify X—packaging of the unit: U—1U rack mount, M—modular (standalone) mount
- Specify Y—connector type: A—SC/APC, B—SC, C—FC, Z—FC/APC, D-ST
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory
- Network Management available, please contact factory
- Due to product enhancements, specifications are subject to change without notice