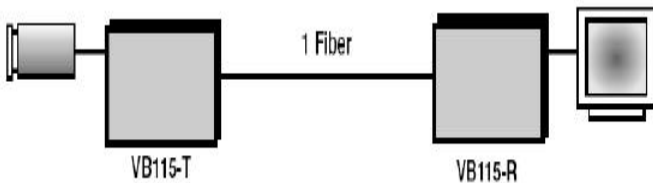


## ▶ VBI 15 Video One Way, FM Transmission

### DESCRIPTION



The Radiant Communications VBI 15 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 VBI 15 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.



### BENEFITS



Plug and Play operation

Transmission distances of 100 km or more

### FEATURES



Singlemode and Multimode fiber versions

RS-250B Medium Haul Specifications

Options for CWDM and DWDM Systems (ITU Grid)



**Radiant  
Communications  
Corporation**

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P.O. Box 867  
South Plainfield  
NJ 07080  
USA

2/2005

# ▶ VBI I5 Video One Way, FM Transmission

## SPECIFICATIONS

### Video

Video Format: NTSC, RS170, RS-250-B, PAL, SECAM, CCIR  
 Bandwidth: 6 MHz, 8 bit video  
 Frequency Response:  $\pm 0.2$  dB @ 10 Hz to 500 Hz  
 $\pm 0.6$  dB @ 3 MHz  
 $\pm 0.35$  dB @ 3.58 MHz  
 $\pm 0.7$  dB @ 4.2 MHz  
 $\pm 3.0$  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: < $\pm 4\%$   
 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

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

### Note:

- Specify X—packaging of the unit: U—IU rack mount, M—modular (standalone) mount
- Specify Y—connector type: A—SC/APC, E—SC, B—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



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