

## ▶ VBX100 Video Transport 1 Way 2-80 Channels

### DESCRIPTION



The Radiant Communications VBX100S Series is capable of transmitting up to 80 real-time video signals over one singlemode fiber, and can transmit distances of up to 80 km without repeaters. The VBX100S is available in various configurations, depending on the number of channels and optical budget. Starting with as little as two video signals, the VBX100S can be expanded to up to 80 video inputs to meet the expanding needs of your system. The VBX100S Series offers an optional NMS (Network Management System) that can provide networked (TCP/IP) status information on the system. The NMS software indicates the condition of the video presence on the transmitter and receiver, along with a fiber level information in the receiver. Like all Radiant Communications transmission systems, no adjustments are required at the time of installation, or anytime thereafter.

### BENEFITS

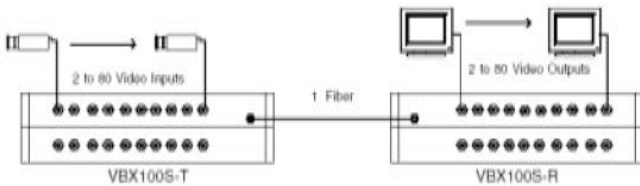


- Plug and Play operation
- Converts any 10/100/1000M to fiber media
- Transmission distances of 100 km or more

### FEATURES



- One and two fiber versions
- Full Duplex operation
- Options for CWDM and DWDM Systems (ITU Grid)



**Radiant  
Communications  
Corporation**

Phone: 908 757 7444 or 800 969 3427  
Fax: 908 757 8666  
E-mail: [sales@rccfiber.com](mailto:sales@rccfiber.com)  
[www.rccfiber.com](http://www.rccfiber.com)

P.O. Box 867  
South Plainfield  
NJ 07080  
USA

2/2005

# ▶ VBX100 Video Transport One Way

## SPECIFICATIONS

### Video

Video Channels: 2 to 80, scalable  
 Video Format: NTSC, RS170, RS-250-B, PAL, SECAM, CCIR  
 Bandwidth: 6 MHz, 8 bit video  
 SNR/CTN >58 db  
 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: 1310nm, 1550nm, CWDM, DWDM  
 Number of Fibers: 1  
 Optical Connector: SC/APC, SC, ST, FC, FC/APC

### General Characteristics

Power: 0.8A @ 120 VAC  
 Operating Temperature: -20° to 50° C  
 Storage Temperature: -40° to 85° C  
 Size: rackmount 19.0" W x 13.0D x 1.75" H

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VBX1XXS-T-XY3	Video Mux Transmitter 2-80 Channels, 1 Fiber, Singlemode 1310 nm	10 dB	25 km
VBX1XXS-T-XY3	Video Mux Transmitter 2-80 Channels, 1 Fiber, Singlemode 1310 nm	10 dB	25 km
VBX1XXS-T-XY5	Video Mux High Power Transmitter 2-80 Channels, 1 Fiber, Singlemode 1550 nm	20 dB	50 km
VBX1XXS-T-XY5	Video Mux High Power Receiver 2-80 Channels, 1 Fiber, Singlemode 1550 nm	20 dB	50 km

### 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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 Corporation**

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