

DESCRIPTION

The Radiant series VB136 transports HD-SDI (SMPTE 292), SDI (SMPTE 259) or DVB-ASI over fiber optic cable.

The innovative unit can be built with three variations, transmitter, receiver or transceiver for two way connections.

The standard rackmount unit can be configured with an SFP (LC) or other connectors. While the card cage and stand alone module offer an OC48 SFP pluggable LC connection.

The unit offers automatic detection of the input signal from 143 Mbps, 270 Mbps, 1.483 Gbps or 1.485 Gbps. If the signal does not lock the device will automatically bypass the reclocker. The VB136 offers complete status monitoring via front panel LED's.

Automatic cable equalization for up to 100 meters with Belden 1694A at 1.485 Gbps or 300 meters for signals with 270 Mbps.

Like most Radiant products the VB136 can be packaged in a standard 1RU rackmount, a stand alone module/can or housed in the CR200 card cage. In addition -48 power or redundant power supplies are available.



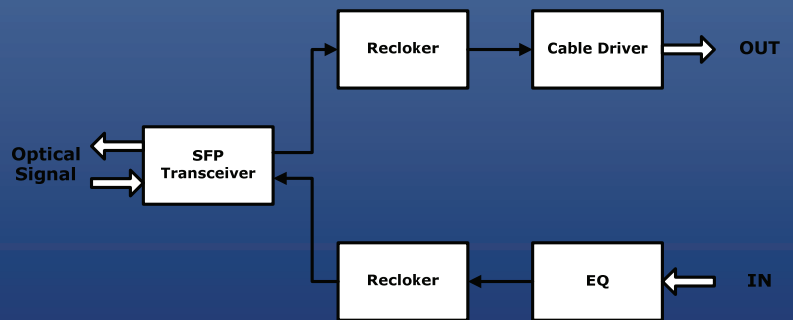
▶ VB136 SD/HDI Transport over Fiber

▶ BENEFITS

- HD-SDI, SDI or DVB-ASI automatic detection
- Converts HD/SDI, SDI or ASI video to fiber
- Cost effective solution for fiber transport of digital signals

▶ FEATURES

- Reclocking mode with auto detection between 143 Mbps, 270 Mbps, 1.483 or 1.485 Gbps
- Automatically bypasses reclocker when signal doesn't lock
- Transmission distances up to 80 km



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▶ VBI36 HD/SDI over Fiber

SPECIFICATIONS

Signals

Video: SMPTE-292M HD-SDI, SMPTE-259M, SDI or DVB-ASI
Data Rate: 143 Mbps to 1.5 Gbps
Signal Level: 800 mV peak to peak +/- 10%
Return Loss: >15 dB
Connector: BNC - 75 Ohm

Status Indicators:

Front Panel - Power, Optical Link, Signal Detect, HD IN/OUT
Onboard - Lock IN/OUT and Laser status

Optical

Wavelength: 850 nm, 1310 nm or 1550 nm
CWDM, DWDM in future
Loss budget distance: 850 nm MM - 300 meters
1310 nm SM - 2 km
1310 nm SM DFB -15 km
1550 nm SM DFB - 40 km
1550 nm SM DFB/w APD 80 km
Number of Fibers: 1
Optical Connector: SC/APC, SC/UPC, LC*
LC only available on modular and card cage versions

General Characteristics

Power Level: 10W @ 90 to 240V AC for IRU
+12 VDC @ 1.0 A for modular and card cage
Operating Temp: 0° to 50° C
Humidity: 0 to 95% RH, non-condensing
Size: rackmount 17.0" W x 13.0" D x 1.75" H
Module/can 2.8" W x 3.75" D x 1.1" H
Card cage 1 slot in CR200 card cage

ORDERING INFORMATION

| PART NUMBER | DESCRIPTION | MAX DISTANCES |
|---------------|--|---------------|
| VBI36-T/-XYZ | SD/HDI over Fiber Singlemode Transmitter | 80 km |
| VBI36-R/-XYZ | SD/HDI over Fiber Singlemode Receiver | 80 km |
| VBI36-T/R-XY6 | SD/HDI over Fiber Singlemode Transceiver | 80 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,
- Specify Z— frequency 8=850 nm, 3=1310 nm or 5=1550 nm
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory
- Due to product enhancements, specifications are subject to change without notice



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