

DESCRIPTION

Radiant's series VB155 offers an efficient method of transporting ASI or serial digital streams over fiber.

The unit converts an electrical SDI or ASI signal to singlemode optical signal for transport over fiber. This system can combine up to 8 ASI signals onto one fiber for transmission from a studio to the CATV headend or between different hub-sites within a CATV system.

The standard product is a one stream unit over fiber, multiple streams use CWDM technology to optically multiplex up to eight ASI signals onto one fiber and transport the information up to 100 km and beyond. The VB155 is a plug and play system with no adjustments required.

The unit will not convert from ASI to Serial Digital or SDI to ASI.

Contact factory for other types of HDTV signals - SMPTE-259, 292.



**Radiant
Communications
Corporation**

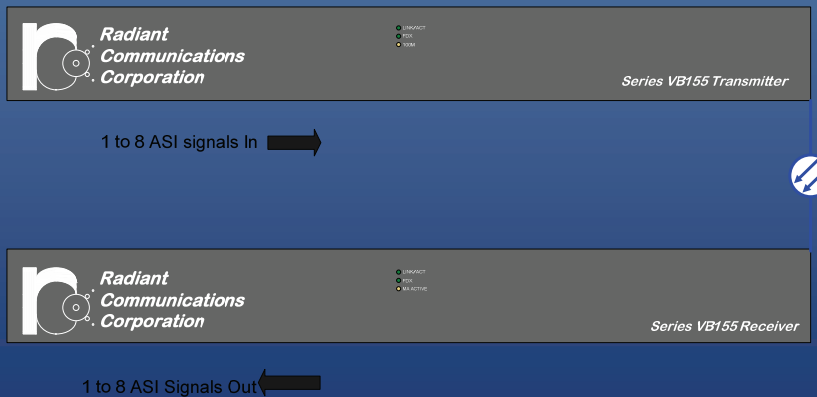
▶ VB155 ASI Fiber Transport

▶ BENEFITS

- Up to 8 ASI streams on one fiber
- Low cost per stream
- Transmission distances of 100 km or more

▶ FEATURES

- Combine up to 8 ASI streams onto one fiber
- Options for DWDM Systems (ITU Grid)



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2/2008

▶ VBI55 ASI Fiber Transport

SPECIFICATIONS

ASI

Signals:	1 to 8 ASI streams
Bandwidth:	270 MBS per ASI
Impedance:	75 ohms
Connector:	BNC
Indicators:	POWER, LINK and INPUT LED's
Jitter:	Transmitter: 180ps Receiver: 25ps

Optical

Wavelength:	1310nm, 1550nm, CWDM, DWDM
Number of Fibers:	1
Power Budget:	see table below

General Characteristics

Power:	15W @ 90 to 240V AC
Operating Temp:	-20° to 50° C
Storage Temp:	-40 to 85° C
Humidity:	0-95% non-condensing
Size: Rackmount:	17.0" W x 13.0" D x 1.75" H
Card Cage:	2 slots in CR200
Module:	2.8" W x 3.75" D x 1.1" H

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	OPTICAL BUDGET	DISTANCE
SINGLEMODE	1310nm (single ASI only)	18db	50km
SINGLEMODE	1550nm (single ASI only)	18db	100km
SINGLEMODE	1310/1550nm (dual ASI only)	18db	50km
SINGLEMODE	CWDM	18db	100km

ORDERING INFORMATION

Contact factory for higher optical budgets and distances

PART NUMBER	DESCRIPTION
VBI55D-T-YZN	Transmitter, Single ASI, 1310nm or 1550nm
VBI55D-R-YZN	Receiver, Single ASI, 1310nm or 1550nm
VBI55D2-T-YZ6	Transmitter, Dual ASI, 1310/1550nm
VBI55D2-R-YZ6	Receiver, Dual ASI, 1310/1550nm
VBI55DX-T-YZC	Transmitter, 2 to 8 ASI, CWDM
VBI55DX-R-YZC	Receiver, 2 to 8 ASI, CWDM

Note:

- CR200 card cage option recommended for 3 or more streams to allow for future expansion
- Specify X—number of ASI streams,
- Specify Y—packaging of the unit: U—IU rack mount, M—modular (standalone), R—card cage rack mount
- Specify Z—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- Specify N—wavelength: 3—1310nm, 5—1550nm
- Maximum attenuation can be increased
- Add -48VDC to part number for -48VDC power
- Add -RPS to part number for redundant power supply
- For DWDM systems, contact factory
- CR200 Card Cage Available for housing multiple units or multiple products
- For other types of HDTV or SDI signals, contact factory
- Due to product enhancements, specifications are subject to change without notice



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