

Viper II TR6292

Bidirectional HD/SD-SDI Modules for the Viper II



Lightweight, easy-to-deploy fiber connectivity solutions.

The Viper II TR6292 bidirectional fiber optic serial digital video transceiver from Grass Valley, a Belden Brand, offers Telecast performance in the space-saving Viper II form factor. The TR6292 uses only one fiber to transmit and receive any format of HD-SDI in two directions, using WDM muxing.

A front panel BNC is available to monitor incoming or outgoing video, plus an essential received optical power meter.

Using the optional expansion card, the TR6292 can convert into a 2-slot transceiver, with 6 HD-SDI BNC rear panel outputs.

TR6292 set will support any standard format SDI video, from 19.4 Mb/s ATSC to 1.5 Gb/s HD, as well as other digital signals.



Viper II TR6292 Bidirectional HD/SD-SDI Modules for the Viper II

KEY FEATURES

- Rack modules or standalone
- One HD-SDI each way on 1 fiber, WDM
- DA plug-in option for 4 more HD-SDI outputs
- Loop through Tx video input
- Dual Rx video outputs
- Front panel monitoring
- Reclocking on/off front panel switch
- Equalized coax up to 1.5 Gb/s
- Compatible with TV standards SMPTE 292M, 259M and 244M
- 19.4 Mb/s to 1.5 Gb/s transport
- Up to 22 dB optical link budget for HD
- Durable, high reliability construction
- No pathological data problems
- RoHS compliant
- Wide temperature range
- Low power consumption

SPECIFICATIONS

Video

Transmission method: Digital
Input level: 800 mV p-p
Input impedance: 75Ω
Output impedance: 75Ω
Bit-error rate at -22 dBm: 10-12
Jitter (pathological test patter): <0.2 UI
Rise/fall time: <270 ps
Input coax EQ (1505 at 1.5 Gb/s): 100m (328 ft.)

Optical

Operating wavelengths: 1300 nm and 1550 nm
Transmitter output: -7 dBm
Receiver input range: -2 to -22 dBm
Optical source: Laser diode
Detector type: PIN
Fiber type: Single-mode

Mechanical/Environmental

Dimensions (W x H x D): 127 x 279.4 x 25.4 mm (5 x 11 x 1 in.)
Weight (per standalone module): 0.28 kg (10 oz.)
Video connectors: BNC
Power req. (typ., per module): 10 to 18 VDC
Power consumption (typical per module): 5W
Temperature range: -25° to 55° C (-13° to 131° F)
Humidity range: 0 to 95% RH, non-condensing

ORDERING

TR6292-AE	Rack mount, -7 dBm at 1300 nm fp laser output
TR6292-EA	Rack mount, 0 dBm at 1550 nm DFB laser output
MTR6292-AE	Standalone, -7 dBm at 1300 nm fp laser output
MTR6292-EA	Standalone, 0 dBm at 1550 nm DFB laser output
ADAP-AC-01LC	Wall-wart power supply for standalone modules (110 VAC input, 500 mA, US plug type)



GVB-1-0450A-EN-DS

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