

Mini 3G HD/SDI Fiber Optic Link Fiber Optic Transport

SUMMARY

The SilverBULLET is an economic solution designed for transmission of SDI and HD-SDI TV signals on single mode fiber optic cable. Perfect for today's professional and broadcast applications. At just three inches in length, this cost-effective solution is ideal for a wide variety of pro A/V and broadcast applications, including video production and editing, ENG with additional uses for sports teleproduction, field production, remote camera links, cross-campus production, pre-fibered venues and courtesy feeds.



- An economical solution for the fiber optic transport of 5 Mbps to 3 Gbps HDTV signals
- Supports the SMPTE 424M 2.97Gbps, SMPTE 292M 1.485 Gbps and SMPTE 259M 270 Mbps standards
- Typical Link Distance over Single Mode is 30KM
- Typical Link Distance over Multi Mode: 3G 300m, 1.5G 500m, 270M 1km
- Rugged die cast/over molded construction
- Error free pathological pattern operation
- Power 5-16 VDC with 4 Pin XLR

TECHNICAL SPECIFICATIONS

Video

Transmission method	Digital
Input level	800 mV (peak to peak)
Input Impedance	75 ohms
Coax Equalization	@ 270 Mbps 350m @ 1.485 Gbps 140m @ 2.97 Gbps 50m*
Output Impedance	75 ohms
Bit-Error Rate(@-20dBm)	10-11
Jitter (pathological data pattern)	< 120 ps
Rise/Fall Times	< 120 ps

* - Typical equalized length of Belden 1694A cable: 120m at 2.97Gb/s, 200m at 1.485Gb/s, and 350m at 270Mb/s.



Transmission

Operating wavelength	1300nm, 1550nm or 1470nm to 1610nm CWDM
Video connector in/out	BNC
Optical connector	ST single mode (standard)
Optical Source	FP, DFB or CWDM Laser Diode
Optical detector	PIN-TIA Diode
Transmitter output	-6 dBm (0~+3 dBm optional)
Receiver sensitivity	-20 dBm
Link Margin/Distance using single mode fiber	13 dB/5 km@3G (1310nm) 20 dB/30 km@3G (1550nm or CWDM Laser Diode)
Fiber type	Single mode or multimode

Mechanical/Environmental

Dimensions (LxWxH)	3.2" x 0.65" x 0.75" (8.13 x 1.65 x 1.91 mm)
Weight, each end	2.5 oz (70 g)
Input Voltage	5~16 VDC
Power connector	XLR 4 PIN
Power Consumption, each end	600mW
Indicators	Power, signal, link, optical power
Temperature Range, operating	-25° C to +55°C Humidity Range 0 to 95%RH, non-condensing

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