

FEATURES

- ▷ Fiber transport from 5Mbps to 3Gbps
- ▷ Supports SMPTE 424M, 292M, 259M, 310M, 344M, 305M & DVB-ASI
- ▷ Equalizes 120m of Gepco VSD2001 or Belden 1694A cable at 3 Gb/sec
- ▷ Equalizes 150m of Gepco VSD2001 or Belden 1694A cable at 1.485 Gb/sec
- ▷ Supports embedded audio and data
- ▷ Monitor optical power level at RX
- ▷ Non re-clocking
- ▷ Singlemode fiber recommended
- ▷ ST optical connector
- ▷ Small, rugged, portable
- ▷ Stand alone or rack
- ▷ Power supplies and convenient case included
- ▷ International AC adapters included
- ▷ One year warranty

APPLICATIONS

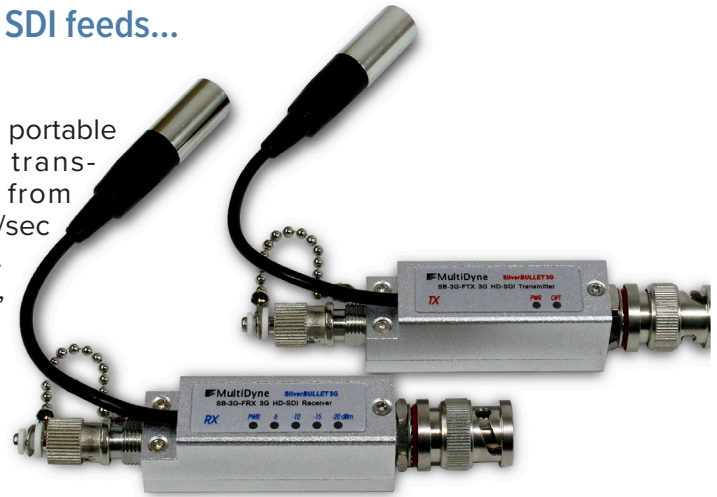
- ▷ Sports production
- ▷ Remote camera links
- ▷ Distance learning
- ▷ OB Van Inter-connects
- ▷ Pre-fibered venues
- ▷ Courtesy feeds

For fixed links or last minute SDI feeds... load up on SilverBullets™

The SilverBULLETS are a highly portable and economical solution for transporting multi-rate SDI signals from 5 Mb/sec all the way up to 3 Gb/sec on singlemode or multimode fiber. At just three inches in length, SilverBullets are perfect for a wide variety of today's pro A/V and broadcast applications. But don't let the small size fool you! The case is a rugged, diecast aluminum that is over molded for even more rigidity. The optical connector is the popular metallic ST-type and the video connector is the standard BNC male. Power (5-16 VDC) is supplied via a locking 4-pin mini-XLR connector that eliminates any possibility of the power cord accidentally becoming unplugged.

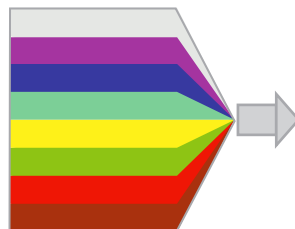
Integrated LEDs make troubleshooting easy with DC power and optical laser indications on the transmitter and DC power and optical power reporting on the receiver. Not only can your RX unit receive SDI signals, it can also be used as a confidence optical power meter for ANY digital optical signal.

The SilverBULLETS do NOT re-clock so your ASI paths will work the same as your 3Gb/sec uncompressed paths. The result is error-free operation even with challenging pathological pattern testing.



And just because they are small does not mean they can't handle long links, either. With an optical launch power of -6dBm for standard units (0 dBm for CWDM units) and receiver sensitivity to -20 dBm, runs of 25km or more are possible...with optical power to spare. SilverBullets transmitters can also be ordered at any of 18 CWDM wavelengths in order to facilitate optical multiplexing with our CWDM-2000 line of CWDM mux and demux units. Each pair of SilverBullets comes packaged in a convenient case with 100-240VAC input wall-mount power supplies. For instances when you want to power your units from your camera battery, optional "Power Clip" Power Tap adapters or full-sized 4-pin XLR adapters are available.

The SilverBullets from Multidyne. The next time you need just one more feed ten minutes prior to air, you'll be glad you have them.



CWDM wavelengths are available for easy optical multiplexing via our CWDM-2000 modules



The BULLETS use industry standard, locking mini 4-pin XLR's for power. OA Power-Tap adapter is also available

The case, power supplies and international AC plug adapters are all included



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TECHNICAL SPECIFICATIONS

3G

Digital Video	
Bit Rates:	5Mbps to 3Gbps
# of Ins/outs:	1 BNC
Impedence:	75 Ohms
Level:	800mV (peak to peak)
Standard:	SMPTE 425M, 297M, 292M, 259M-C & DVB-ASI
Bit Error Rate:	(@-22dBm) 10 ⁻¹¹
Return Loss:	>15 dB at 5 MHz - 1.485 GHz >10 dB at 1.5 GHz to 3 GHz
Jitter(wideband):	< 0.3 UI
Rise/Fall times:	<120psecs

Optical	
Wavelengths:	1310 or 1271-1611
Optical Connector:	ST
Optical Source:	FP laser or CWDM DFB
Optical Detector:	PIN Diode
TX Output:	-6 Standard (0 DFB)
RX Sensitivity:	-20 dBm
Link Margin:	14 to 20 dB (up to 40km)*
Fiber Type:	Multimode or Singlemode Singlemode recommended

* Distances based on using SINGLEMODE fiber

Environmental/Electrical	
Power:	5-16 VDC
Consumption	600 mWatts
Temperature:	0 to +55C
Humidity	0-95% RH non-condensing
Dimensions	3.2 x 0.65 x 0.75 inches
Weight	2.5 oz.
Coax Equalization	
@ 270Mb/sec	350m
@ 1.5Gb/sec	140m
@ 3 Gb/sec	50m

12G

Digital Video	
Bit Rates:	5Mbps to 3Gbps
# of Ins/outs:	1 BNC
Impedence:	75 Ohms
Level:	800mV (peak to peak)
Standard:	SMPTE 425M, 297M, 292M, 2082-1, 2081-1 & DVB-ASI
Bit Error Rate:	(@-22dBm) 10 ⁻¹¹
Return Loss:	>15 dB at 5 MHz - 1.485 GHz >10 dB at 1.5 GHz to 3 GHz
Jitter(wideband):	< 0.3 UI
Rise/Fall times:	<120psecs

Optical	
Wavelengths:	1300, 1310, 1270 - 1610
Optical Connector:	ST
Optical Source:	FP laser or CWDM DFB
Optical Detector:	PIN Diode
TX Output:	-3 Standard (0 DFB)
RX Sensitivity:	-12 dBm
Link Margin:	13 to 20 dB (up to 40km)*
Fiber Type:	Singlemode

*Distance based on using SINGLEMODE Fiber

Environmental/Electrical	
Power:	5-16 VDC
Consumption	1.5 Watts
Temperature:	-10C to +55C
Humidity	0-90% RH non-condensing
Dimensions	3.2 x 0.65 x 0.75 inches
Weight	4.0 oz.
Coax Equalization	
@ 1.485 GBPS	160m
@ 2.97 GBPS	100m
@ 5.94 GBPS	80m
@ 11.88 GBPS	75m

ORDER INFORMATION

Module	Case & Power Supplies Included
SB-3G-FTX-ST	SilverBULLET™ 3.0 Gbps Multi-rate Serial Digital Video Transmitter @ 1310nm, -6dBm for: SD/HD-SDI, DVB ASI, SMPTE 310M, ST connector
SB-3G-FTX-xxxx-ST	SilverBULLET™ 3.0 Gbps Multi-rate Serial Digital Video Transmitter, CWDM wavelengths, 0 to +3 dBm for: SD/HDSDI, 3G HD-SDI, DVB ASI, SMPTE 310M, ST connector
SB-3G-FRX-ST	SilverBULLET™ 3.0 Gbps Multi-rate Serial Digital Video Receiver, Sensitivity -20 dBm for: SD/HD-SDI, DVB ASI, SMPTE 310M, ST connector
SB-12G-FTX-ST	SilverBULLET™ 12.0 Gbps Multi-rate Serial Digital Video Transmitter @ 1310nm, -6dBm for: SD/HD-SDI, DVB ASI, SMPTE 310M, ST connector
SB-12G-FTX-xxxx-ST	SilverBULLET™ 12.0 Gbps Multi-rate Serial Digital Video Transmitter, CWDM wavelengths, 0 to +3 dBm for: SD/HDSDI, 3G HD-SDI, DVB ASI, SMPTE 310M, ST connector
SB-12G-FRX-ST	SilverBULLET™ 12.0 Gbps Multi-rate Serial Digital Video Receiver, Sensitivity -20 dBm for: SD/HD-SDI, DVB ASI, SMPTE 310M, ST connector
Accessories	
SB-PS-XLR	Replacement power supply for SilverBULLET™, mini-XLR to universal AC adapter
SB-PC-PT	Anton Bauer Power tap power supply for SilverBULLET™