

FEATURES

- ▷ 6 channel 3Gbps HD-SDI video
- ▷ 2 Serial Data
- ▷ Sync, Tally, GPIO
- ▷ Tri Level sync/Genlock
- ▷ Ethernet
- ▷ Remote camera and system power

APPLICATIONS

- ▷ 4K POV with robotic control
- ▷ Ideal for Panasonic AK-UB300 with PTZ Head

An economic solution for 4K, PTZ fiber transmission



Transmit

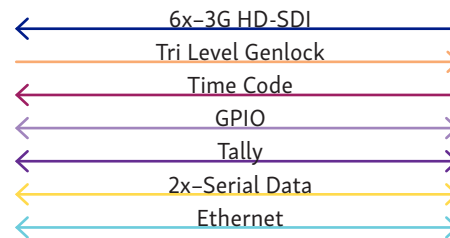


Receive

The VB-3802 is part of the versatile LightBrix line of compact, rugged fiber transport products. Ideal for a box camera mounted to a robotic PTZ head. The VB-3802 will transport a full complement of

camera signals. This allows for flexible setup, strike and mobility by having the entire camera position free of cables and expensive SMPTE cables.

APPLICATION



TECHNICAL SPECIFICATIONS

Digital Video

Transmitter	6 on TX, 0 on RX
Receiver	0 on TX, 6 on RX
Interface	SMPTE ST259, ST292, ST424, DVB-ASI
Data Rate	270Mbps, 1.5Gbps, 3Gbps
Input/Output Level	800mVp-p
Input/Output Impedance	75 Ohms
Return Loss	>15 dB 5 MHz - 1.485 GHz >10 dB up to to 3 GHz
Jitter	< 0.2UI
Rise/fall times	< 800ps (SD), < 130ps (HD)
Bit-error rate	10e-12

Genlock/Sync

Number of Inputs	1
Number of Outputs	1
Type	Analog Black Burst (NTSC, PAL), HD Tri-Level
Impedance	75 Ohms

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TECHNICAL SPECIFICATIONS (CONT)

Tally/GPIO

Number of GPI Inputs	1
Number of Tally Inputs	1
Number of GPI Outputs	1
Number of Tally Outputs	1
Inputs	Short to GND or TTL Low to Activate
Outputs	Relay Contact Closure (30V, 2A max)

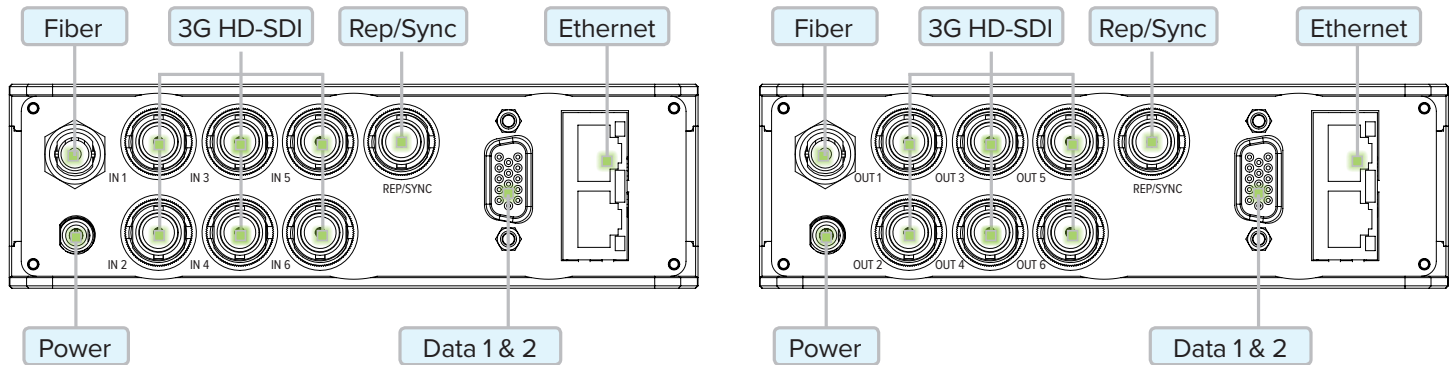
Optical

Operating Wavelengths	1471-1611nm
Tx Laser Output Power	0dBm (Class 1 Laser)
Receiver Sensitivity	-20dBm
Fiber Compatibility	Single-mode
Optical Connector Types	SC, ST, LC
Distance limit	40km w/Single-mode

Serial Data

Dimensions	(LxWxH) 7.25"x5.75"x1.75"
Video connectors:	BNC
Power Input:	2.5mm jack
Center pin	+
Power rating:	nominal 50w max@14 VDC
Power Requirement:	<10w @5-24VDC

Rear Panels



ORDERING INFORMATION

Part Number	Description
VB-3802-6X0-SDXEA-ST	6 Ch. 3.0 Gbps Multi-rate HD-SDI TX, EQ & Reclocker, 1 Ch. Genlock RX, 2 Ch. Data, 2 Ethernet ports, over 1 fiber; Singlemode, ST Connector
VB-3802-0X6-SDXEA-ST	6 Ch. 3.0 Gbps Multi-rate HD-SDI RX, EQ & Reclocker, 1 Ch. Genlock TX, 2 Ch. Data, 2 Ethernet ports, over 1 fiber; Singlemode, ST Connector



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