Velopik obd 1810-2

3G Bidirectional SDI/Fiber Transceiver

- Supports SDI video up to 3G (1080p60)
- 3G Level A and Level B support (all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- Bidirectional send and receive on single fiber
- Error free optical connections
- Up to 10km* (6.2 miles) @ 3Gbit/s
- Simplex LC/PC singlemode fiber connection
- Supports hot swapping and hot plugging

The OBD 1810-2 is a bidirectional Fiber Optic to SDI transmitter and receiver which uses a single fiber link supplied in a compact self contained package. It is a convenient and cost-effective solution to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

The OBD 1810-2 modules are supplied in pairs, one Type A and one Type B which work together in a WDM closed loop application. Each module has an electrical SDI in and SDI out connection and uses a single fiber link between the two.

Each channel is fully independent and can have different standards and formats of SDI video. The modules auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s and 3Gbit/s SDI source prior to conversion. The modules are fully compatible with 3G Level A and Level B formats.

Note: This system used WDM optical multiplexing and should only be used in point to point applications. This solution cannot be integrated into a CWDM multiplexed system.

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation

Fiber Adapter Options

These adapter kits allow the use of ST, SC or FC fiber connections on the module.



Model# LC/SC SIM LC/PC to SC/PC Adapter



Model# LC/ST SIM LC/PC to ST/SC Adapter



Model# LC/FC SIM LC/PC to FC/SC Adapter

Connect TYPE B	3G 10km	
Multiplier RX 17X Cornel TYPE A WARNING CLASS 1 Laser Product	3G 10km Fiber Optic / SDI Transceiver	4444
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Technical Specifications

SDI Video

1 x SDI input on 75 Ohm BNC connector 1 x SDI output on 75 Ohm BNC connector

SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI

Multi-standard operation from 270Mbit/s to 3Gbit/s

Multi-rate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s

Electrical Return Lo	SS:	to 1.5GHz: >15dB	to 3GHz: >10dB
Automatic cable EQ:	270Mbit/s	1.5Gbit/s	3Gbit/s
	250m	220m	150m
	Belden 1694A		

Optics

1 x Bidirectional fiber connection (LC/PC Connection)

SMPTF 297M

Wavelength:	Туре А	TX: 1310nm / RX: 1550nm (WDM)
	Туре В	TX: 1550nm / RX: 1310nm (WDM)
Optical power:	Type A / B	-8dBm to -3dBm
RX Sensitivity	Type A / B	-16dBm @3Gbit/s

140mm x 42mm x 22mm

TX active LED on side of module

Max. distance* max. 10km (6.2 miles) @ 3Gbit/s

+12V DC @ 1.9W nominal - (supports 7 - 24V DC input range) **Power**

Power LFD on side of module

Physical (per module) (incl.connectors) (5.51" x 1.65" x 0.86") Weight 125g (4.4oz)

Size

5 - 40°C (41 - 104°F) 90% Humidity (non condensing) **Ambient**

Model # OBD 1810-2 EAN# 4250479318175

Includes 2x Modules, 2x SFP Modules, 2x AC power supply





