yellobrik® OBD 1410

12Gbit Bidirectional SDI/Fiber Transceiver

- Supports SDI video up to 12Gbit/s (2160p60)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- Bidirectional - send and receive on single fiber
- Error free optical connections
- Up to 10km (6.2 miles) @ 12Gbit/s
- Simplex LC/PC singlemode fiber connection
- Supports hot swapping and hot plugging

The OBD 1410 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.
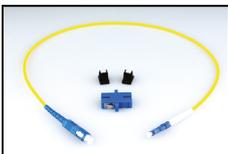
The OBD 1410 modules are supplied in pairs, one Type A and one Type B which work together in a WDM closed loop application. Each module has an electrical SDI in and SDI out connection and uses a single fiber link between the two.

Each channel is fully independent and can have different standards and formats of SDI video. The modules auto-detect and re-clock any 1.5Gbit, 3Gbit, 6Gbit or 12Gbit SDI source prior to conversion. The modules are fully compatible with 3Gbit Level A and Level B formats.
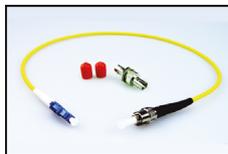
Note: This system used WDM optical multiplexing and should only be used in point to point applications. This solution cannot be integrated into a CWDM multiplexed system.

Technical Specifications

SDI Video	1 x SDI video input 1 x SDI Video output 75 Ohm BNC connectors
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
	Multi-standard operation from 1.5Gbit/s to 12Gbit/s
	Multirate reclocking: 1.5Gbit - 3Gbit - 6Gbit - 12Gbit
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
	260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable) 90m @ 6Gbit/s, 80m @ 12Gbit/s (Belden 4794R cable)
Fiber Optic	1 x Bidirectional fiber connection (LC/PC Connection)
	SMPTE 297M - 2006
	1270nm and 1330nm (WDM)
	TX and RX active LEDs on side of module
	Max. distance 10km (6.2 miles) @ 12Gbit/s (single mode)
Power	+12VDC @ 2.7W nominal for each module - (supports 7 - 24VDC input range)
Physical (each module)	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OBD 1410 (pair) - (EAN# 4250479327450)
Includes	2 x OBD 1410 modules (Type A and Type B), 2 x AC power supplies, SFPs included

Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.

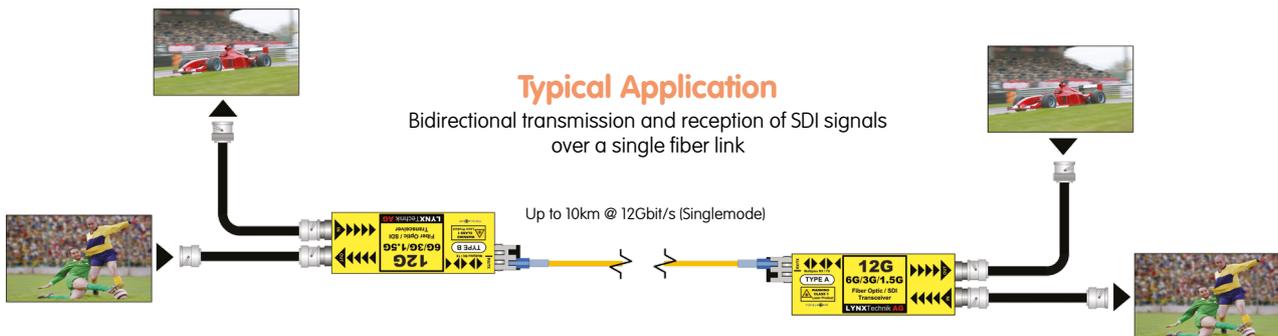Model# **LC/SC SIM**
LC/PC to SC/PC Adapter

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

Typical Application

Bidirectional transmission and reception of SDI signals over a single fiber link

Up to 10km @ 12Gbit/s (Singlemode)

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