12Gbit Bidirectional SDI/Fiber Transceiver

- Supports SDI video up to 12Gbit/s (2160p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 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.

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

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
| Fiber Optic | 1 x Bidirectional fiber connection (LC/PC Connection)
| Fiber Optic | SMPTE 297M - 2006
| Fiber Optic | 1270nm and 1330nm (WDM)
| Fiber Optic | TX and RX active LEDs on side of module
| Fiber Optic | 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 - 40ºC (41 - 104ºF) 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

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

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

Specifications subject to change

Rev 1.0