

3Gbit Fiber Optic / SDI Transceiver

- SDI Fiber receiver and transmitter in single package
- Supports SDI video up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit / 1.5Gbit / 2.97Gbit
- Error free optical connections
- Singlemode and Multimode versions
- Up to 10km (6.2 miles) @ 3Gbit/s (singlemode)
- Up to 300m (984 feet) @ 3Gbit/s (multimode)
- Duplex LC optical connection
- Supports hot swapping and hot plugging



Singlemode SFP Multimode SFP

Using the same basic module we provide two versions suitable for singlemode or multimode fiber. Each version has a different SFP installed.

The OTR 1810 is a Fiber / SDI transmitter and receiver combined in a single 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.

Each OTR 1810 transceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 1080p60 (3Gbit/s) while preserving full uncompressed quality.

The OTR 1810 will auto-detect and re-clock any 270Mbit / 1.5Gbit and 3Gbit SDI source prior to conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

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 DUP
LC/PC to SC/PC Adapter



Model# LC/ST DUP
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 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Multi-rate relocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Fiber Optic	1 x fiber optic input 1 x fiber optic output Duplex using LC Connections
	SMPTE 297M - 2006
	Singlemode Version: OTR 1810 Transmitter: 1310nm (-5dBm) Receiver: 1260nm to 1620nm (-3dBm to -19dBm) Max. distance 10km (6.2 miles) @ 3Gbit/s
	Multimode Version: OTR 1810 MM Transmitter: 850nm (-5dBm) Receiver: 750nm to 880nm (0dBm to -15dBm) Max. distance 300m (984 feet) @ 3Gbit/s
	TX active LED, and RX active on side of module
Power	+12VDC @ 2.6W nominal - (supports 7 - 16VDC input range)
Physical	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 #	OTR 1810 (Singlemode) - (EAN# 4250479318144) OTR 1810 MM (Multimode) - (EAN# 4250479359840)
Includes	Module, AC power supply, transport case

Power Adapter Options

The kit **INCLUDES** AC power supply. The power adapters below are optional.



P-TAP 1000
Use with a standard battery P-TAP power source.



XLR 1000
Use with a standard 4 pin XLR camera battery power source.

Specifications subject to change

3Gbit Bidirectional SDI/Fiber Transceiver

- Supports SDI video up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit / 1.48Gbit / 2.97Gbit
- 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 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.

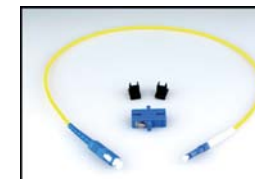
The OBD 1810 modules are supplied in pairs, one Type A and one Type B which work together in a WDM closed loop application. Each module has an electrical SDI in and SDI out connection and uses a single fiber link between the two.

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

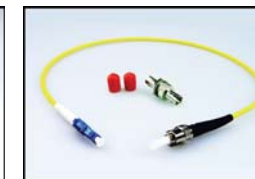
Note. This system used WDM optical multiplexing and should only be used in point to point applications. This solution cannot be integrated into a CWDM multiplexed system.

Fiber Adapter Options

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



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

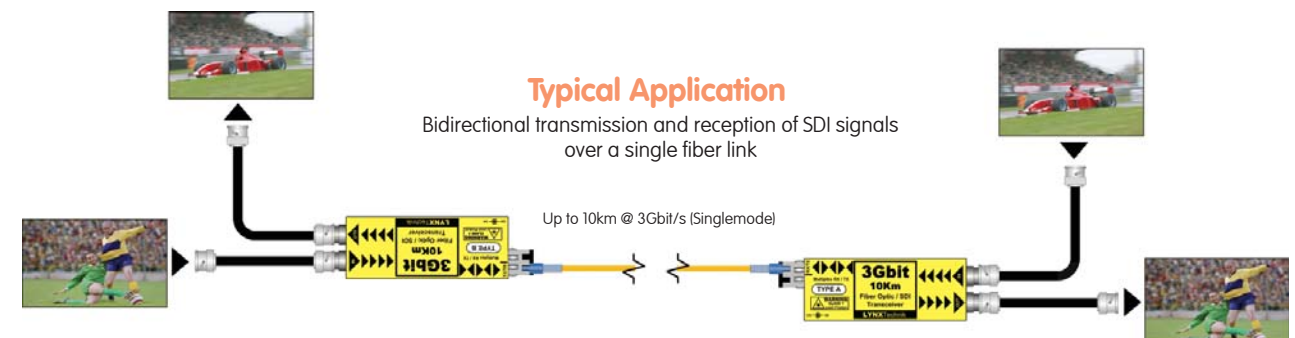


Model# LC/ST SIM
LC/PC to ST/SC Adapter



Technical Specifications

SDI Video	1 x SDI video input 1 x SDI Video output 75 Ohm BNC connectors
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Multi-rate relocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Fiber Optic	1 x Bidirectional fiber connection (LC/PC Connection)
	SMPTE 297M - 2006
	1310nm and 1550nm (WDM)
	14dB Optical Budget
	TX and RX active LEDs on side of module
	Max. distance 10km (6.2 miles) @ 3Gbit/s (single mode)
Power	+12VDC @ 2.7W nominal for each module - (supports 7 - 16VDC 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 1810 (pair) - (EAN# 4250479318175)
Includes	2 x OBD 1810 modules (Type A and Type B), 2 x AC power supplies, plastic transport case.



Typical Application

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

Up to 10km @ 3Gbit/s (Singlemode)

Specifications subject to change