

### 3Gbit Bidirectional SDI/Fiber Transceiver

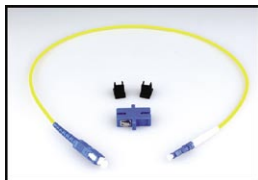
- Supports SDI video up to 3Gbit/s (1080p60)
- Bidirectional send and receive on single fiber
- Error free optical connections
- Up to 10Km (6.2 miles) @ 3Gbit/s
- Simplex LC optical connection
- Supports hot swapping and hot plugging

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.

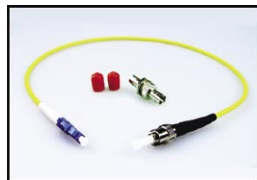
The OBD 1810 modules are sold in pairs, one Type A and one Type B which work together. Each module has an SDI in and SDI out connection and uses a single fiber link between the two.

The OBD 1810 will auto-detect any connected video signal from 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, as well as DVB-ASI.

### Options



LC/SC SIM - LC to SC Adapter



LC/SC SIM - LC to ST Adapter

These adapters allows the use of ST or SC fiber connections to the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



### 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 reclocking  
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 bi-directional fiber connection (LC/PC Connection)

SMPTE 297M - 2006

1310nm and 1550nm (WDM)

14dB Optical Budget

TX and RX active LEDs on side of module

Singlemode transmit / receive

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

#### Power

+12VDC power supply (included)  
Power LED on side of module

#### Size

105mm x 40mm x 22mm (4.13" x 1.57" x 0.86") Each

#### Model #

OBD 1810

#### Includes

2 x OBD 1810 modules (Type A and Type B), 2 x 12V DC power supplies, wall mounting brackets and plastic transport case.

Specifications subject to change

### Typical Application

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

