

## 3GHz Fiber Optic / SDI Transceiver

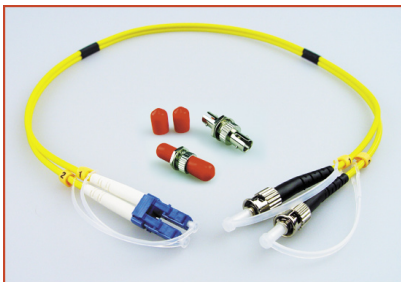
- Supports SDI video up to 3Gbit/s (1080p60)
- Optical receiver and transmitter in single package
- Error free optical connections
- Up to 10Km (6.2 miles) @ 3Gbit/s
- Duplex LC optical connection
- Supports hot swapping and hot plugging

The OTR 1810 is a Fiber Optic to SDI transmitter and receiver combined 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.

Each OTR 1810 transceiver has an independant 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 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.

### Option



#### LC/ST DUP: Duplex LC to ST Adapter Kit

This option allows the connection of ST fiber connections to the OTR 1810 and includes a 0.5m (19.6") tail and 2 x ST/ST sex changer adapters. Supports single mode and multimode operation and combined adapters introduce less than 0.25dB attenuation, which does not impact the specified 10Km supported distance at 3Gbit/s.

### Related Products

- ORX 1800** 3GHz Fiber Optic to SDI Receiver  
**OTX 1810** 3GHz SDI to Fiber Optic Transmitter



### Technical Specifications

<b>SDI Video</b>	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
<b>Fiber Optic</b>	1 x fiber optic input 1 x fiber optic output Duplex (dual single mode) using LC Connections SMPTE 297M - 2006 Hot pluggable TX active LED, and RX active on side of module Single mode transmit / receive (duplex connector) Max. distance 10Km (6.2 miles) @ 3Gbit/s (single mode)
<b>Power</b>	+12VDC power supply (included) ( supports external power input from 9 - 14 VDC ) Power LED on side of module
<b>Size</b>	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
<b>Model #</b>	OTR 1810

### Fiber Optic Connection

LC to LC Duplex (dual single mode) up to 10Km (6.2 miles)  
(not included)

