

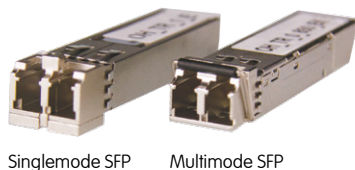
### 3G Fiber Optic/SDI Transceiver

- SDI Fiber receiver and transmitter in single package
- Supports SDI video up to 3Gbit/s (1080p60)
- 3G Level A and Level B support (all formats)
- Auto relocking 270Mbit/s, 1.5Gbit/s, 3Gbit/s
- 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

The OTR 1810-1 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 1810-1 transceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 3G (1080p60) while preserving full uncompressed quality.

The OTR 1810-1 will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, or 3Gbit/s SDI source prior to conversion. The module is fully compatible with 3G Level A and Level B formats.



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.

### Power Adapter Options

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



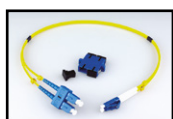
**P-TAP 1000**  
Use with a standard battery P-TAP power source.



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

### Fiber Adapter Options

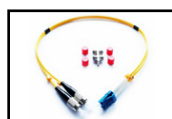
These adapter kits allow the use of ST, SC or FC fiber connections on the module.



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



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



Model# **LC/FC DUP**  
LC/PC to FC/SC Adapter



### Technical Specifications

<b>SDI Video</b>	1 x SDI input on 75 Ohm BNC connectors 1 x SDI output on 75 Ohm BNC connectors		
	SMPT E 424M, SMPT E 292M, SMPT E 259M, DVB-ASI		
	Multi-standard operation from 270Mbit/s to 3Gbit/s		
	Multi-rate relocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s		
Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz: >10dB	
Automatic cable EQ:	270Mbit/s	1.5Gbit/s	3Gbit/s
	250m	220m	150m
	Belden 1694A cable		

<b>Fiber Optic</b>	1 x fiber optic input, 1 x fiber optic output Duplex (Singlemode) using LC/PC Connections		
	SMPT E 297M - 2006		
	<b>Singlemode Version: OTR 1810-1 LC</b>		
Transmitter	Wavelength:	1310nm	
	Optical Power:	-5 dBm (typ.)	
Receiver	Wavelength:	1260nm to 1620nm	
	Sensitivity:	-16 dBm (min.)	
Max. distance*	10km( 6.2miles )	@3Gbit/s	
	<b>Multimode Version: OTR 1810-1 MM</b>		
Transmitter	Wavelength:	850nm	
	Optical Power:	-7dBm to -2dBm	
Receiver	Wavelength:	750nm to 880nm	
	Sensitivity:	-15 dBm (min)	
Max. distance*	300m (984 feet)	@3Gbit/s	
	TX & RX active LEDs on side of module		

<b>Power</b>	+12V DC @ 2W nominal with SFP - ( supports 7 - 24V DC input range )		
	Power LED on side of module		

<b>Physical</b>	Size (incl. connectors)	140mm x 42mm x 22mm (5.51" x 1.65" x 0.86")	
	Weight:	125g (4.4oz)	

<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)		
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<b>Model #</b>	OTR 1810-1 LC	EAN# 4250479318144
	OTR 1810-1 MM	EAN# 4250479359840

<b>Includes</b>	Module, SFP Module, AC power supply		
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\*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

