

3G SDI to Fiber Optic Transmitter

- Supports SDI video inputs up to 3G (1080p60)
- 3G Level A and Level B support (all formats)
- Auto relocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- Error free optical transmission
- Relocked SDI loop out connection
- Versions for LC, ST or SC fiber connections
- Multimode version available
- Up to 10km* (6.2 miles) @ 3Gbit/s (singlemode)
- Up to 300m* (984 feet) @ 3Gbit/s (multimode)
- Supports hot swapping and hot plugging

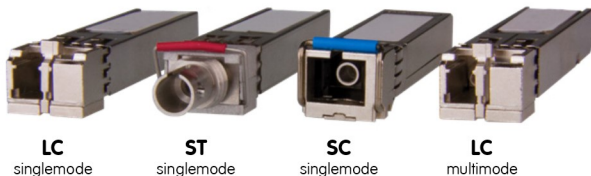
The OTX 1812 is a compact SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with the fiber optic to SDI receiver (e.g. ORX 1802) you have a very cost-effective optical transmission / receiver system for signals up to 3G (1080p60) while preserving full uncompressed quality.

The OTX 1812 provides a looping SDI input and support for LC, ST or SC singlemode fiber connections as well as an LC version suitable for multimode fiber.

The OTX 1812 will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, and 3Gbit/s SDI source prior to optical transmission. The module is fully compatible with 3G Level A and Level B formats.

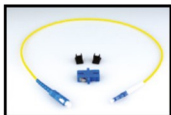
*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.



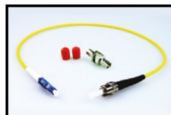
Using the same basic module we provide four versions suitable for LC, ST or SC singlemode fiber connections, as well as a version for multimode fiber. Each version has a different SFP installed.

Fiber Adapter Options

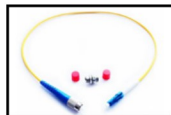
These adapter kits allow the use of ST, SC or FC fiber connections on the module.



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



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



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



OTX 1812 LC Version Shown

Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector 1x SDI output relocked loop on 75 Ohm BNC connector		
	SMPTE 424M, SMPTE 292M, SMPTE 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		
Optical Output	1 x fiber optic output Simplex (singlemode) LC/PC, ST/PC, or SC/PC connection or Simplex (multimode) LC/PC connection		
	SMPTE 297M - 2006		
Wavelength:	OTX 1812 LC /ST/SC	1310nm	
	OTX 1812 MM	850nm	
Optical power:	OTX 1812 LC/ST/SC	-8 dBm to -3dBm	
	OTX 1812 MM	-7dBm to -2dBm	
	TX active LED on side of module		
Max. distance*	OTX 1812 LC/ST/SC	max. 10km* (6.2 miles) @ 3Gbit/s	
	OTX 1812 MM	max. 300m* (984 feet) @ 3Gbit/s	
Power	+12V DC @ 1.9W nominal - (supports 7 - 24V DC input range)		
	Power LED on side of module		
Physical	Size (incl. connectors)	140mm x 42mm x 22mm (5.51" x 1.65" x 0.86")	
	Weight	125g (4.4oz)	
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)		
Model #	OTX 1812 LC	EAN# 4250479359642	
	OTX 1812 ST	EAN# 4250479359666	
	OTX 1812 SC	EAN# 4250479359659	
	OTX 1812 MM	EAN# 4250479359673	
Includes	Module, SFP Module, AC power supply		

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.

