

3G SDI to Fiber Optic Receiver

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- 2 x SDI outputs
- Versions for LC, ST or SC fiber connections
- Multimode version available
- Input range 1260nm to 1620nm (singlemode)
- Input range 780nm to 880nm (multimode)
- Supports hot swapping and hot plugging

The ORX 1802-2 is a compact fiber to SDI receiver 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 transmitters (e.g. yellobrik OTX 1812 or OTX 1842) you have a very cost-effective optical transmission / receiver system for signals up to 3G (1080p60) while preserving full uncompressed quality.

The ORX 1802-2 provides 2 SDI outputs and support for LC, ST or SC singlemode fiber connections as well as an LC version suitable for multimode fiber. It will also auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s and 3Gbit/s SDI fiber source and convert to an electrical signal. The module is fully compatible with 3G Level A and Level B formats.



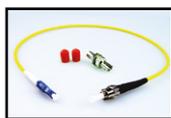
Using the same basic module we provide four versions suitable for LC, ST or SC singlemode fiber connections, as well as a version for multimode fiber. Each version has a different SFP installed.

Fiber Adapter Options

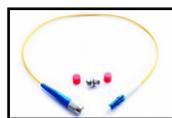
These adapter kits allow the use of ST, SC or FC fiber connections on the module.



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



ORX 1802-2 LC Version Shown

Technical Specifications

Fiber Input	1 x fiber optic input Simplex (singlemode) LC/PC, ST/PC, or SC/PC connection or Simplex (multimode) LC/PC connection		
	SMPT 297M - 2006		
Wavelength:	ORX 1802-2 LC / ST / SC	1260nm to 1620nm	
	ORX 1802-2 MM	780nm to 880nm	
RX Sensitivity	ORX 1802-2 LC / ST / SC	-3 dBm to -19dBm	
	ORX 1802-2 MM	0dBm to -15dBm	
RX active LED on side of module			
Max. distance*	ORX 1802-2 LC / ST/ SC	max. 10km (6.2 miles)	@ 3Gbit/s
	ORX 1802-2 MM	max. 300m (984feet)	@ 3Gbit/s
SDI Output	2 x SDI video on 75 Ohm BNC connectors		
	SMPT 424M, SMPT 292M, SMPT 259M, DVB-ASI		
	Multi-standard operation from 270Mbit/s to 3Gbit/s		
	Multirate relocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s		
Electrical Return Loss:	to 1.5GHz:	>15dB	
	to 3GHz:	>10dB	
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 #	ORX 1802-2 LC	EAN# 4250479359697	
	ORX 1802-2 ST	EAN# 4250479359710	
	ORX 1802-2 SC	EAN# 4250479359703	
	ORX 1802-2 MM	EAN# 4250479359727	
Includes	Module, SFP Module, AC power supply		

*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.

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.

