

yellobrik® ORX 1802

3Gbit SDI to Fiber Optic Transmitter

- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit / 1.5Gbit / 2.97Gbit
- 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



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.

The ORX 1802 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 1080p60 (3Gbit/s), while preserving full uncompressed quality.

The OTX 1812 provides 2 SDI outputs and support for LC, ST or SC singlemode fiber connections as well as an LC version suitable for multimode fiber.

The ORX 1802 will auto-detect and re-clock any 270Mbit / 1.5Gbit and 3Gbit SDI fiber source and convert to an electrical signal. The module is fully compatible with 3Gbit Level A and Level B formats.



ORX 1802 LC Version Shown

Technical Specifications

Fiber Input singlemode	1 x fiber optic Input LC, ST or SC connection
	SMPTE 297M - 2006
	Input range (wavelength) 1260nm to 1620nm
	RX sensitivity -3dBm to -19dBm
	RX active LED on side of module
Fiber Input multimode	1 x Fiber Optic Input LC Connection
	SMPTE 297M - 2006
	Input range (wavelength) 780nm to 880nm
	RX sensitivity 0dBm to -15dBm
	RX active LED on side of module
SDI Output	2 x SDI video on 75 Ohm BNC connectors
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
Power	+12VDC @ 1.3W nominal - (supports 7 - 16VDC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	ORX 1802 LC - (EAN# 4250479359697) ORX 1802 ST - (EAN# 4250479359710) ORX 1802 SC - (EAN# 4250479359703) ORX 1802 MM (Multimode) - (EAN# 4250479359727)
Includes	Module, AC power supply, transport case

Power Adapter Options

The kit **INCLUDES** AC power supply. 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.

Specifications subject to change

yellobrik® ORR 1802

Dual Channel 3Gbit Fiber to SDI Receiver

- Dual channel
- Supports SDI video inputs up to 3Gbit/s (1080p60)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 270Mbit / 1.48Gbit / 2.97Gbit
- Error free optical reception
- 1260nm to 1620nm wavelength input range
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging



The ORR 1802 is a compact dual channel fiber optical to SDI receiver designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with a SDI optical transmitter (e.g. yellobrik OTT 1812, OTX 1812, OTX 1842 etc) you have a very cost effective optical transmission / receiver system for signals up to 1080p60 (3Gbit/s), while preserving full uncompressed quality.

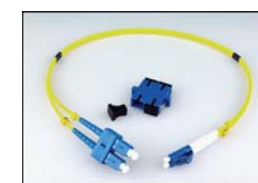
The ORR1802 has two completely independent channels and each will auto-detect and re-clock any 270Mbit / 1.48Gbit and 2.97Gbit SDI fiber source prior to electrical conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

Technical Specifications

Fiber Inputs	2 x fiber optic Inputs (one for each channel) Duplex (single mode) using LC/PC Connections
	SMPTE 297M - 2006
	Hot pluggable
	Input range (wavelength) 1260nm to 1620nm
	RX sensitivity -3dBm to -16dBm
	RX active LED on side of module
	(SMF) Singlemode fiber
SDI Outputs	2 x SDI video on 75 Ohm BNC connector (two independent channels)
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
Power	+12VDC @ 2.2W nominal - (supports 7 - 16VDC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	ORR 1802 - (EAN# 4250479318021)
Includes	Module, AC power supply, transport case

Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



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



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

Power Adapter Options

The kit **INCLUDES** AC power supply. 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.

Specifications subject to change