

yellobrik[®] OTX 1812

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
- 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



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 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. yellobrik ORX 1802) 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 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 / 1.5Gbit and 3Gbit SDI source prior to optical transmission. The module is fully compatible with 3Gbit Level A and Level B formats.

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.



OTX 1812 LC Version Shown

Technical Specifications

SDI Input	1 x SDI video input and 1 x SDI relocked loop output 75 Ohm BNC connectors SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multirate relocking : 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s Return Loss: > 15dB to 1.5Gbit and > 10dB up to 3Gbit Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Fiber out Singlemode	1 x fiber optic singlemode output LC, ST or SC connection SMPTE 297M - 2006 Wavelength 1310nm, Optical power -5dBm TX active LED on side of module Max. distance approx. 10km (6.2 miles) @ 3Gbit/s (Singlemode)
Fiber out Multimode	1 x fiber optic multimode output. LC connection SMPTE 297M - 2006 Wavelength 850nm, Optical power -5dBm TX active LED on side of module Max. distance approx. 300m (984feet) @ 3Gbit/s (Multimode)
Power	+12VDC @ 1.7W nominal - (supports 7 - 17VDC 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 #	OTX 1812 LC - (EAN# 4250479359642) OTX 1812 ST - (EAN# 4250479359666) OTX 1812 SC - (EAN# 4250479359659) OTX 1812 MM (Multimode) - (EAN# 4250479359673)
Includes	Module, AC power supply, transport case

Specifications subject to change

yellobrik[®] OTT 1812

Dual Channel 3Gbit SDI to Fiber Transmitter

- 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 transmission
- Up to 10km (6.2 miles) @ 3Gbit/s
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging



The OTT 1812 is a compact dual channel 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 dual channel fiber optic to SDI receiver (e.g. yellobrik ORR 1802) you have a very cost effective dual channel optical transmission / receiver system for signals up to 1080p60 (3Gbit/s), while preserving full uncompressed quality.

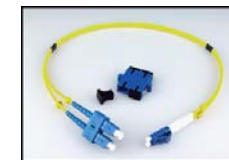
The OTT 1812 has two completely independent channels and each will auto-detect and re-clock any 270Mbit / 1.48Gbit and 2.97Gbit SDI source prior to optical transmission. The module is fully compatible with 3Gbit Level A and Level B formats.

Technical Specifications

Input	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 Multi-rate relocking 270Mbit/s - 1.48Gbit/s - 2.97Gbit/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
Optical Outputs	2 x fiber optic outputs (one for each channel) Duplex (single model) using LC/PC Connections SMPTE 297M - 2006 Wavelength 1310nm (each channel) Optical power -5dBm (each channel) TX active LEDs on side of module Max. distance approx. 10km (6.2 miles) @ 3Gbit/s (Singlemode)
Power	+12VDC @ 2.5W 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 #	OTT 1812 - (EAN# 4250479318229)
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