

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 reclocking 270Mbit / 1.5Gbit / 2.97Gbit
- Error free optical transmission
- Reclocked 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



LC
singlemode

ST
singlemode

SC
singlemode

LC
multimode

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.



OTX 1812 LC Version Shown

Technical Specifications

SDI Input	1 x SDI video input and 1 x SDI reclocked loop output 75 Ohm BNC connectors
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Multirate reclocking : 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s
	Return Loss: > 15dB to 1.5Gbit and > 10dB up to 3Gbit
Fiber out Singlemode	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
	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
Fiber out Multimode	Max. distance approx. 10km (6.2 miles) @ 3Gbit/s (Singlemode)
	1 x fiber optic multimode output. LC connection
	SMPTE 297M - 2006
	Wavelength 850nm, Optical power -5dBm
	TX active LED on side of module
Power	Max. distance approx. 300m (984feet) @ 3Gbit/s (Multimode)
	+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

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

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