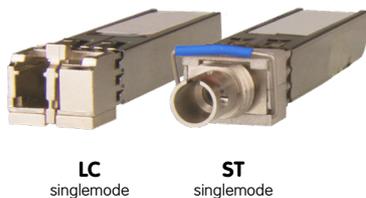# yellobrik® OTX 1410

12G, 6G, 3G, 1.5G SDI to Fiber Optic Transmitter

- Supports 12G, 6G, 3G and 1.5G SDI video inputs
- 3Gbit Level A and Level B (support for all formats)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- Error free optical transmission
- Reclocked SDI loop out connection
- LC/PC and ST connection variants
- Singlemode fiber connection
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- Hot swappable and hot pluggable

OTX 1410 LC Version Shown

LC singlemode **ST** singlemode

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

The OTX 1410 is a compact SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed, high bandwidth, broadcast quality video signals over long distances.

When paired with the fiber optic to SDI receiver (e.g. yellobrik ORX 1400) you have a very cost-effective optical transmission / receiver system for signals up to 12Gbit/s (4096×2160 @ 60Hz), while preserving full uncompressed quality.

Operation of the OTX 1410 is fully automatic. The SDI video format is automatically detected, reclocked and then transmitted over the fiber optic connection. A reclocked electrical SDI output is also provided.
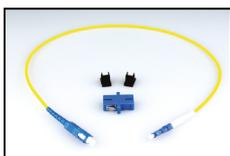
The OTX 1410 supports 12G, 6G, 3G and 1.5G SDI video standards and is available in LC and ST variants.
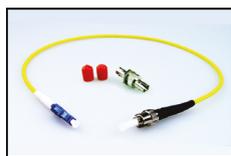
Technical Specifications

SDI Input	1 x SDI video input and 1 x SDI reclocked loop output 75 Ohm BNC connectors
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
	Multi-standard operation from 1.5Gbit/s to 12Gbit/s
	Multirate reclocking: 1.5Gbit - 3Gbit - 6Gbit - 12Gbit
	Automatic cable EQ 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable) 90m @ 6Gbit/s, 80m @ 12Gbit/s (Belden 4794R cable)
Optical Output	1 x fiber optic output SMF (singlemode) using LC/PC or ST connection
	SMPTE 297M - 2006
	Wavelength 1310nm, typical Optical power -3dBm
	TX active LED on side of module
	Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (SM) - depending on system
Power	+12VDC @ 2.2W nominal - (supports 7 - 24VDC 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 1410 LC - (EAN# 4250479324756) OTX 1410 ST - (EAN# 4250479327641)
Includes	Module, AC power supply

Fiber Adapter Options (singlemode)

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 SIM** LC/PC to SC/PC Adapter

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

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.

Specifications subject to change