yellobrik® OTX 1410

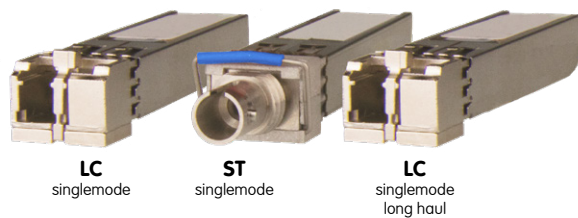## 12G, 6G, 3G, 1.5G SDI to Fiber Optic Transmitter

- Supports 12G, 6G, 3G, 1.5G and 270M SDI video inputs
- 3G Level A and Level B (support for all formats)
- Auto reclocking 270M, 1.5Gbit/s, 3Gbit/s, 6Gbit, and 12Gbit/s
- Error free optical transmission
- Reclocked SDI loop out connection
- LC and ST connection variants
- Singlemode fiber connection
- Up to 10km* (6.2 miles) @ 12Gbit/s with OTX 1410 LC and ST variant
- Up to 40km* (24.8 miles) @ 12Gbit/s with OTX 1410 LC-40 variant
- Hot swappable and hot pluggable

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 transmitter/receiver system for signals up to 12G (4096×2160 @ 60Hz) while preserving full, uncompressed quality.

The 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, 1.5G and 270M SDI video standards and is available in LC, LC-40, and ST variants.

OTX 1410 LC Version Shown

LC singlemode   **ST** singlemode   **LC** singlemode long haul

Using the same basic module we provide three versions suitable for LC or ST singlemode fiber connections, one of which being a long haul 40km fiber transmissions. Each version has a different SFP installed. See Model# in the Technical Specifications table for more information.*

Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector 1x SDI output reclocked loop on 75 Ohm BNC connector			
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M			
	Multi-standard operation from 270Mbit/s to 12Gbit/s			
	Multi-rate reclocking: 1.5Gbit/s to 12bit/s			
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB / to 12GHz >4dB
	Automatic cable EQ:	1.5Gbit/s	3Gbit/s	6Gbit/s / 12Gbit/s
		220m	150m	90m / 80m
		Belden 1694A cable		Belden 4794R cable

Optical Output	1 x fiber optic output Simplex (singlemode) using LC/PC Connection		
	SMPTE 297M - 2006		
	Wavelength:	1310nm	
	Optical power:	-3dBm (typ.)	
	TX active LED on side of module		
	Max. distance*	OTX 1410 LC/ST	max. 10km @ 12Gbit/s
		OTX 1410 LC-40	max. 40km @ 12Gbit/s

Power	+12V DC @ 2.0W 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 #	OTX 1410 LC EAN# 4250479324756 OTX 1410 LC-40 EAN# 4250479328495 OTX 1410 ST EAN# 4250479327641

Includes	Module, SPF 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.