

12G, 6G, 3G, 1.5G SDI to Fiber Optic Transmitter (CWDM)

- Supports 12G, 6G, 3G and 1.5G SDI video inputs
- 3G Level A and Level B support (all formats)
- Auto relocking 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, and 12Gbit/s
- Relocked SDI loop output
- multiple wavelengths available
- Error free optical transmission
- Simplex LC singlemode optical connection
- Supports hot swapping and hot plugging

The OTX 1440 is a compact CWDM 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 1400) you have a very cost-effective optical transmission / receiver system for signals up to 12G (4096x2160 @ 60Hz) while preserving full uncompressed quality. Select from 18 wavelengths for full CWDM compatibility.

Operation of the OTX 1440 is fully automatic. The SDI video format is detected, relocked and then transmitted over the fiber optic connection. A relocked electrical SDI output is also provided. The OTX 1440 supports 12G, 6G, 3G, 1.5G, 270M SDI video standards.

Note: This yellobrik **DOES NOT INCLUDE** the fiber SFP module. Please specify the required SFP option from the option list.



Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector 1x SDI output relocked 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 relocking: 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 220m	3Gbit/s 150m	6Gbit/s 90m	12Gbit/s 80m
	Belden 1694A cable		Belden 4794R cable	

Optical Output	1 x fiber optic output Simplex (singlemode) using LC/PC Connection		
	SMPTE 297M - 2006		
	Wavelength:	CWDM selection. See select SFP table	
	Optical power:	see selected SFP option	
	TX active LED on side of module		
Max. distance*	OH-TX-12G-XXXX-LC	max. 10km	@ 12Gbit/s
	OH-TX-4-XXXX-LC	max. 40km	@ 3Gbit/s
	OH-TX-8-XXXX-LC	max 80km	@ 3Gbit/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 1440	EAN# 4250479325968	
Includes	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.

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.

CWDM Wavelength Options. ITU-T G.694.2 (select one)

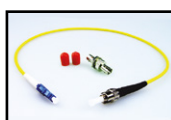
Wavelength	TX Power	Option # xxxx = Wavelength
1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm	-2...+3 dBm	12Gbit/s: OH-TX-12G-XXXX-LC
1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm	-1dBm (typ.)	3Gbit/s (40km): OH-TX-4-XXXX-LC
1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm	+3dBm (typ.)	3Gbit/s (80km): OH-TX-8-XXXX-LC

Fiber Adapter Options

These adapter kits allow the use of ST, SC or FC fiber connections on the module.



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



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



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

