

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

- Supports 12G, 6G, 3G and 1.5G SDI video inputs
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- 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 4096x2160 / 60Hz (12Gbit/s), 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 and 1.5G SDI video standards.

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.

Ordering Info:

Note: The **OTX 1440** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required SFP option from the option list below.

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

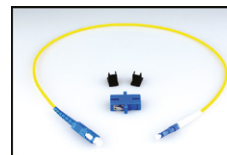
Wavelength	TX Power	Option # xxxx = Wavelength
1279, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm	-2...+3 dBm	12Gbit/s: OH-TX-12G-XXXX-LC
1279, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 nm	-1dBm (typ.)	3Gbit/s (40km): OH-TX-4-XXXX-LC
279, 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

Technical Specifications

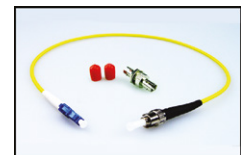
Input	1 x SDI video on 75 Ohm BNC connector with relocked loop output SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M Multi-standard operation from 1.5Gbit/s to 12Gbit/s Multi-rate relocking 1.5Gbit/s to 12bit/s Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz Automatic cable EQ (Belden 1694A cable) 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 Simplex (singlemode) using LC Connection SMPTE 297M - 2006 Hot pluggable Wavelength selection: see selected SFP option TX active LED on side of module TX power: see selected SFP option
Power	+12VDC @ 2.0W nominal without SFP (supports 7 - 24 VDC 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 1440 (EAN# 4250479325968)
Includes	Module, AC power supply

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 SIM**
LC/PC to SC/PC Adapter



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

OTX1440-rev04 Specifications subject to change