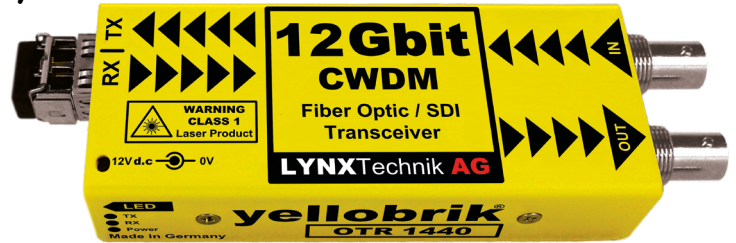# yellobrik® OTR 1440

12Gbit Fiber Optic / SDI Transceiver (CWDM)

- Optical receiver and transmitter in single package
- Supports SDI video up to 12Gbit/s (4096x2160 @ 60 Hz)
- 3Gbit Level A and Level B support (all formats)
- Auto reclocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- CWDM with 4 wavelengths (1270nm to 1330nm) selections
- Error free optical connections
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- Duplex LC/PC single mode optical connections
- Supports hot swapping and hot plugging

The OTR 1440 is a CWDM Fiber Optic to SDI transmitter and receiver combined in a compact self contained package. It is a convenient and cost-effective solution to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

Each OTR 1440 CWDM tranceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 12Gbit/s (4096x2160 @ 60Hz), while preserving full uncompressed quality. Select from 4 transmitter wavelengths for full CWDM compatibility (ITU-T G.694.2)

The OTR 1440 will auto-detect and re-clock any 1.5Gbit, 3Gbit, 6Gbit, or 12 Gbit SDI source prior to conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

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.
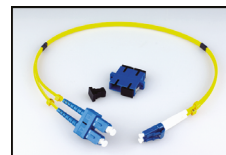
Ordering Info:

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

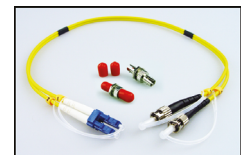### CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelength	Power	RX Sensitivity	Option #	EAN
1270nm	-2...+3dBm	-10 dBm (6G,12G) -14dBm (1.5G,3G)	**OH-TR-12-1270-LC**	4250479326552
1290nm	-2...+3dBm	-10 dBm (6G,12G) -14dBm (1.5G,3G)	**OH-TR-12-1290-LC**	4250479326569
1310nm	-2...+3dBm	-10 dBm (6G,12G) -14dBm (1.5G,3G)	**OH-TR-12-1310-LC**	4250479326576
1330nm	-2...+3dBm	-10 dBm (6G,12G) -14dBm (1.5G,3G)	**OH-TR-12-1330-LC**	4250479326583

Technical Specifications

SDI Video	1 x SDI video input 1 x SDI Video 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
	Multi-rate reclocking 1.5Gbit/s - 5Gbit/s - 6Gbit/s-12Gbit/s
	Automatic cable EQ 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable) 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)
Fiber Optic	**1 x fiber optic input and output (Transceiver** Provides flexibitly in choosing different types of SFPs (TX,RX, TR)
	SMPTE 297M - 2006
	Hot pluggable
	TX active LED, and RX active on side of module
	Single mode transmit / receive (duplex connector)
	Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (Singlemode)
Power	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.7W nominal with SFP (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 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)
Model #	OTR 1440 - (EAN# 4250479326620)
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 DUP**
LC/PC to SC/PC Adapter

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

LYNXTechnik **AG**® | Broadcast Television Equipment

www.lynx-technik.com