



4K Fiber Transmission System

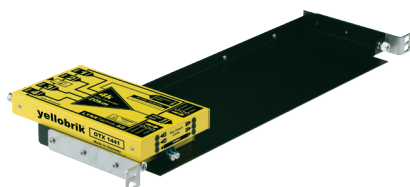
- Support for 4 independent 3G/HD/SD-SDI channels
- Transport 4K (uncompressed) up to 20km (12 miles)
- Each channel supports resolutions up to 1080p/60Hz
- Each channel individually relocked
- Embedded audio / metadata support for each channel
- Integrated expansion port to add more channels
- LED indicators for channel activity and power
- Kit includes transmitter, receiver and power supplies
- Optional 19" Rack tray to mount (max) 4 modules

The OTR 1441 is a self contained fiber transmission kit for the transport of 4 discreet SDI signals (or 4K / 12G uncompressed) over a single fiber link. The kit includes the fiber transmitter, fiber receiver and power supplies. This is an ideal solution for the transmission of multiple uncompressed SDI streams, or 4K up to 20km with zero losses.

Each SDI channel is fully independent. For 4K use the signal is split over 4 separate 3G SDI links (12G) and supports full 4K resolution at 60fps. The system can also be used for any combination of SDI signals, with a mix of formats and bit-rates if required. Each channel will automatically detect and relock SDI bit rates of 270Mbit, 1.48Gbit and 2.97Gbit.

An expansion port is included for the connection of the OTR 1442 to add 4 more SDI channels (dual 4K) over a single fiber.

LED Indicators are provided for channel presence and power. An optional 19" rack mount tray is available which can accommodate up to 4 modules (RFR 1018).



RFR 1018

19" Rack frame to mount up to 4 modules. No tools required, modules are clipped securely in place.

Technical Specifications

SDI I/O	4 x multi-format 3G/HD/SD-SDI inputs [OTX 1441] 4 x multi-format 3G/HD/SD-SDI outputs [ORX 1441] 75 Ω BNC connections
	SMPT 259M-2008, SMPT 292-1:2012, SMPT 292-2:2011 SMPT 424M-2006, DVB ASI
	Multi-standard / Multi-format operation auto-detect. Multi-rate relocking: 270Mbit / 1.48Gbit / 2.97Gbit
	Return Loss: > 15dB to 1.5Gbit and > 10dB to 2.97Gbit
Fiber I/O	Automatic Cable EQ (Belden 1694A cable) 340m@270Mbit, 150m@1.58Gbit, 120m@3Gbit
	1 x Fiber optic I/O port (COM port) 1 x Fiber optic expansion port (UPG port) LC/PC connections - Single Mode
	SMPT 297M - 2006
	Internal CWDM Multiplexing Wavelengths : 1270nm, 1290nm, 1310nm, 1330nm Optical budget: 10.6dB Maximum distance [typical]: 20km (12 miles) Fiber activity LEDs for each channel
Power	+12VDC nominal. ORX1441 = 4.4W, OTX 1441 = 5.4W Supports external power input from 9 - 17 VDC 2 x Power LEDs provided
Physical	170 x 99.7 x 40.5mm (6.7" x 3.9" x 1.6) - (each Module) Weight: 600g (21.1oz) net - (each module)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OTR 1441 LC - (EAN# 4250479321151)
Includes	OTX 1441 - 4K Fiber Transmitter module ORX 1441 - 4K Fiber Receiver module 2 x 12VDC (brick) power supplies

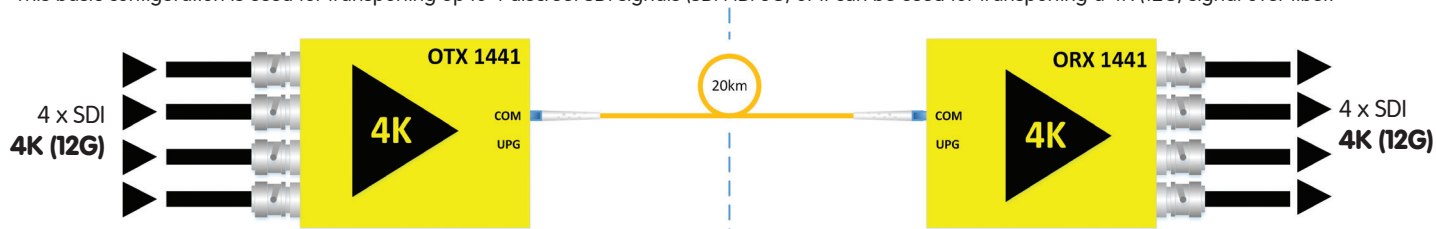
Note. Internal CWDM optical multiplexing is utilized within the modules. This kit should be considered a self contained point to point solution and should not be integrated into external CWDM systems. An expansion port is included on each module which can be used to add additional SDI channels from the OTR 1442.

Specifications subject to change

Applications

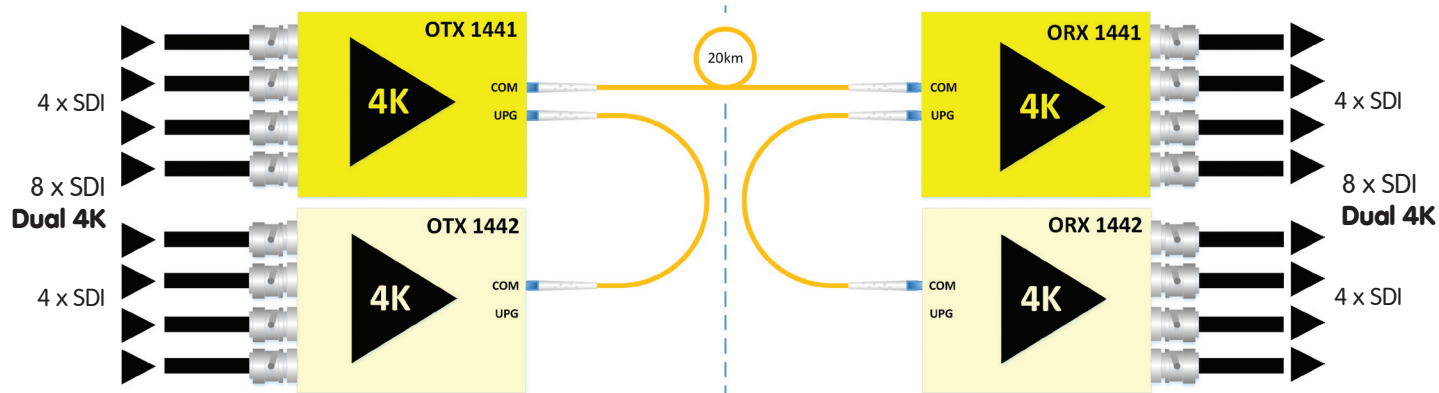
4 x SDI (4K 12G) Fiber Transport

This basic configuration is used for transporting up to 4 discreet SDI signals (SD/HD/3G) or it can be used for transporting a 4K (12G) signal over fiber.



8 x SDI (Dual 4K) Unidirectional Fiber Transport

This configuration uses the UPG port to add more channels into the link from the OTR 1442. This system be used to transport 8 discreet SDI signals (SD/HD/3G) or it can be used for transporting two unidirectional 4K signals over a single fiber.



4 x SDI (4K 12G) Bidirectional Fiber Transport

This configuration uses the UPG port to add more channels into the link from the OTR 1442. This shows a bidirectional application sending and receiving 4 discreet (SD/HD/3G) SDI channels, or sending and receiving 4K over a single fiber.

