



## 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
- Integrated expansion port for future use
- LED indicators for channel activity and power
- Kit includes transmitter, receiver and power supplies
- Optional 19" Rack tray to mount (max) 4 modules

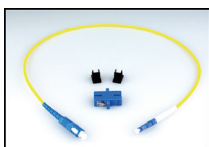
The OTR 1441 is a self contained fiber transmission kit for the transport of 4 x SDI signals (12G uncompressed) over a single fiber link for distances up to 20km (12miles). The kit includes the fiber transmitter, fiber receiver and power supplies. This is an ideal solution for the transmission of multiple uncompressed SDI streams over long distances 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 4K resolution at 60fps. The system can also be used for any combination of SDI signals each with a different format and bit-rate if required. Each channel will automatically detect and relock SDI bit rates of 270Mbit, 1.48Gbit and 2.97Gbit.

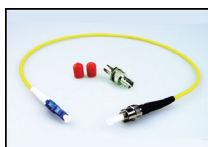
LED Indicators are provided for channel presence and power. An optional 19" rack mount tray is available which can accommodate up to 4 modules.

### Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the modules. 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/PC Adapter

## Technical Specifications

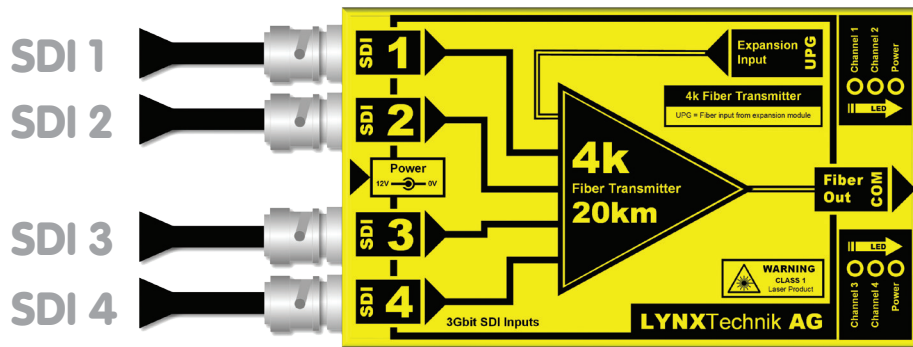
|                  |   |
|------------------|---|
| <b>SDI I/O</b>   | 4 x multi-format 3G/HD/SD-SDI inputs [OTX 1441]<br>4 x multi-format 3G/HD/SD-SDI outputs [ORX 1441]<br>75 Ω BNC connections                         |
|                  | SMPT E 259M-2008 , SMPT E 292-1:2012, SMPT E 292-2:2011<br>SMPT E 424M-2006 , DVB ASI   |
|                  | Multi-standard / Multi-format operation auto-detect.<br>Multi-rate relocking: 270Mbit / 1.48Gbit / 2.97Gbit   |
|                  | Return Loss: > 15dB to 1.5Gbit and > 10dB to 2.97Gbit   |
|                  | Automatic Cable EQ (Belden 1694A cable)<br>250m@270Mbit, 140m@1.58Gbit, 80m@3Gbit   |
| <b>Fiber I/O</b> | 1 x Fiber optic I/O port (COM port)<br>1 x Fiber optic expansion port (UPG port) for future use<br>LC/PC connections - Single Mode                  |
|                  | SMPT E 297M - 2006  |
|                  | Internal CWDM Multiplexing<br>Wavelengths : 1270nm, 1290nm, 1310nm, 1330nm<br>Optical budget: 10.6dB<br>Maximum distance (typical): 20km (12 miles) |
|                  | Fiber activity LEDs for each channel  |
| <b>Power</b>     | +12VDC nominal. ORX1441 = 4.4W, OTX 1441 = 5.4W<br>Supports external power input from 9 - 17 VDC<br>2 x Power LEDs provided                         |
| <b>Physical</b>  | 170 x 99.7 x 40.5mm (6.7" x 3.9" x 1.6) - (each Module)<br>Weight: 600g (21.1oz) net - (each module)  |
| <b>Ambient</b>   | 5 - 40°C (41 - 104°F) 90% Humidity (non condensing)   |
| <b>Model #</b>   | OTR 1441 LC - ( EAN# 4250479321151 )  |
| <b>Includes</b>  | OTX 1441 - 4K Fiber Transmitter module<br>ORX 1441 - 4K Fiber Receiver module<br>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 (for future use) which will can be used to add additional SDI channels.

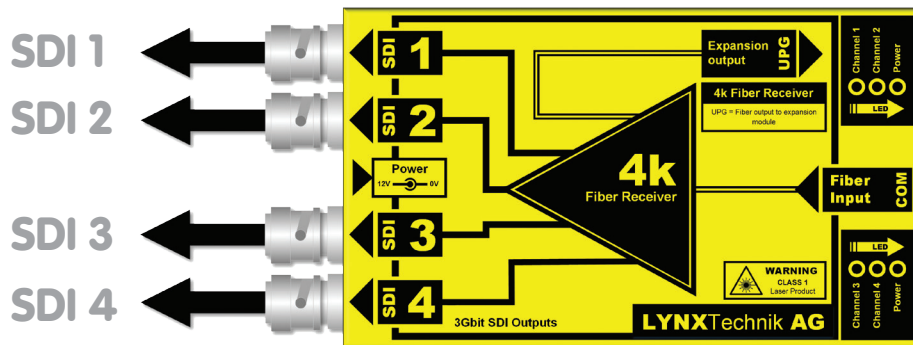
Specifications subject to change

The modules can be used to transport up to 4 x 3G/HD/SD uncompressed SDI signals, each channel is fully independent, with full auto-detect and SDI reclocking. SDI inputs and fiber connections support hot plugging. Combine all 4 channels for 12G (4K) transport over a single fiber link for up to 20km (12 miles)

## OTX 1441 - 4K Fiber Transmitter



20km



## ORX 1441 - 4K Fiber Receiver

## Options



### 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



### RFR 1018

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