



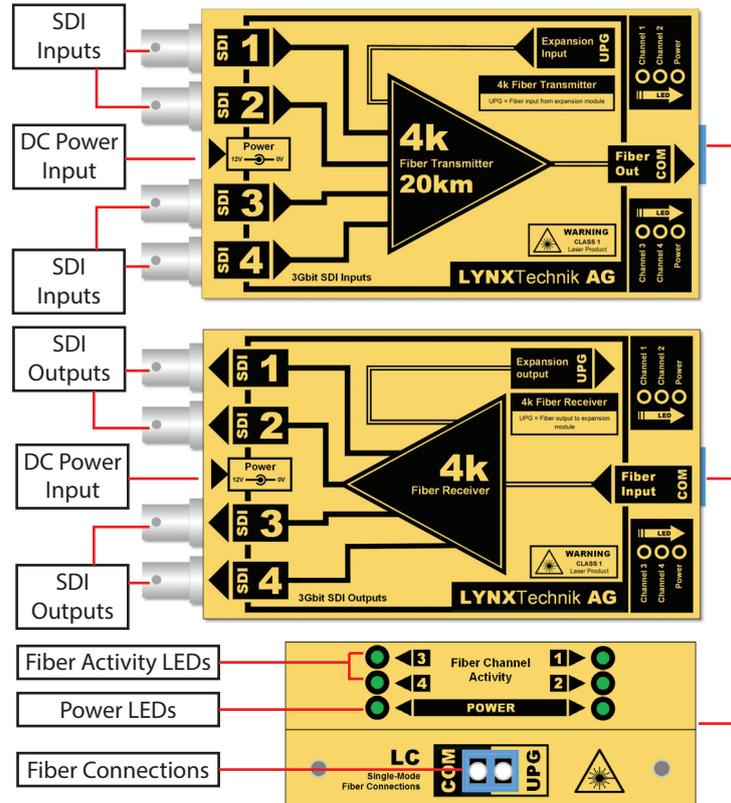
Technical Specifications

| | |
|------------------|---|
| 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 |
| | SMPTE 259M-2008, SMPTE 292-1:2012, SMPTE 292-2:2011, SMPTE 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 |
| | Automatic Cable EQ (Belden 1694A cable) 250m@270Mbit, 140m@1.5Gbit, 80m@3Gbit |
| Fiber I/O | 1 x Fiber optic I/O port (COM port) 1 x Fiber optic expansion port (UPG port) LC/PC connections - Single Mode |
| | SMPTE 297M - 2006 |
| | Internal CWDM [1270nm, 1290nm, 1310nm, 1330nm] Optical budget: 10.6dB Maximum distance [typical]: 20km (12 miles) |
| | Fiber activity LEDs for each channel |
| Power | 9 - 17 VDC - 5.5W (per module) 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) |

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OTR 1441 LC 4K (12G) Fiber Transmission System



Introduction

The OTR 1441 is a self-contained fiber conversion solution for the transmission of up to 4 uncompressed SDI signals over a single fiber link (maximum 20km -12 miles). The kit includes a *OTX 1441 Fiber Transmitter* and *ORX 1441 Fiber Receiver* and 2 Power Supplies.

Each SDI channel is independent and can be any SDI format. For 4K applications 4 x 3G HDSDI links are typically used. Each SDI channel is transparent with support for embedded audio and any associated ancillary metadata in the SDI stream. The modules will auto-detect and re-clock SDI bit-rates of 270Mbit, 1.5Gbit and 2.97 Gbit.

Connections

The SDI electrical input and outputs are BNC connections, and the fiber I/O is connected to the COM port on each module using LC connectors.



*Note

The modules are CWDM devices and can only be used with SMF (Singlemode fiber). Multimode fiber is not supported.

The module has no user settings, operation is fully automatic. The module supports hot plugging the connections.

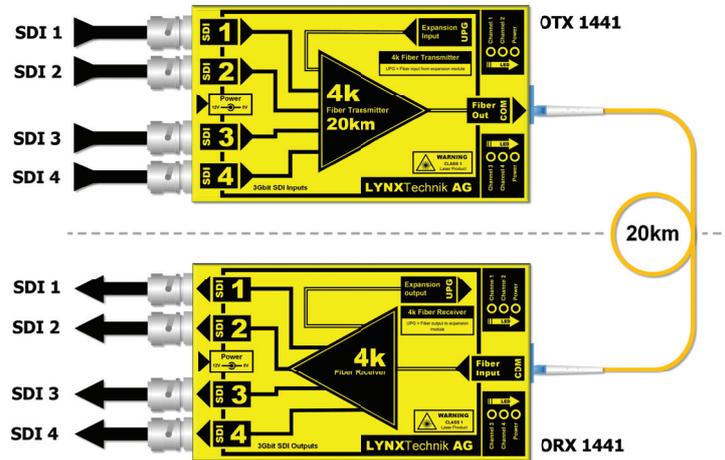
Indicators

The module uses optical CWDM multiplexing internally. Fiber activity LEDs are provided which indicates the presence of active optical signals in the corresponding channel.

Two power LEDs are also provided and both need to be ON for normal operation.



Note: This system should be considered a closed loop point to point system and should not be integrated into an external CWDM system. A UPG port is provided to accommodate the addition of additional SDI channels into the single fiber link.



The fiber connection is made between each **COM** port. The UPG port is used to connect the OTR 1442 to add 4 more SDI channels.

Power

2 x 12VDC external power supply bricks are provided. 12VDC is the nominal power level. An external DC input between 9-17VDC is supported (for battery operation). **DO NOT** exceed 17VDC as damage to the module will result. Each module requires 5.5W of power.

Power Lead Strain Relief

There is a small extruded loop above the power connector which can be used with the supplied tie-wrap to secure the power lead.

