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Quick Reference

Technical Specifications

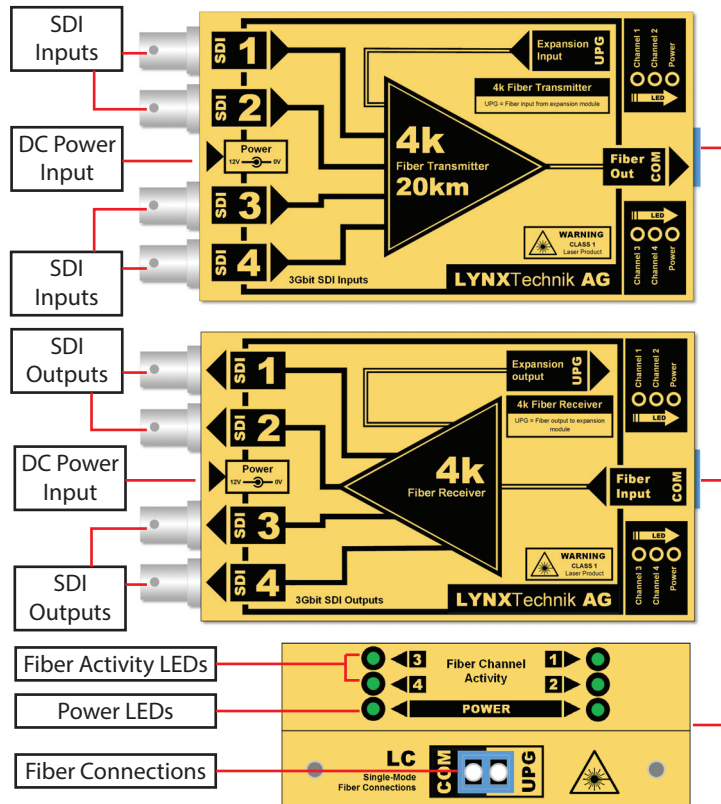
SDI I/O	4 x multi-format 3G/HD/SD-SDI inputs [OTX 1442] 4 x multi-format 3G/HD/SD-SDI outputs [ORX 1442] 75 Ω BNC connections
	SMPTE 259M-2008, SMPTE 292-1:2012, SMPTE 292-2:2011, SMPTE 424M-2006, DVB ASI
	Multi-standard / Multi-format operation auto-detect. Multi-rate relocking: 270Mbit / 1.48Gbit / 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 [1350nm, 1370nm, 1390nm, 1410nm] 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 1442 LC 4K (12G) Fiber Transmission System



Introduction

The OTR 1442 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 1442 Fiber Transmitter* and *ORX 1442 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.

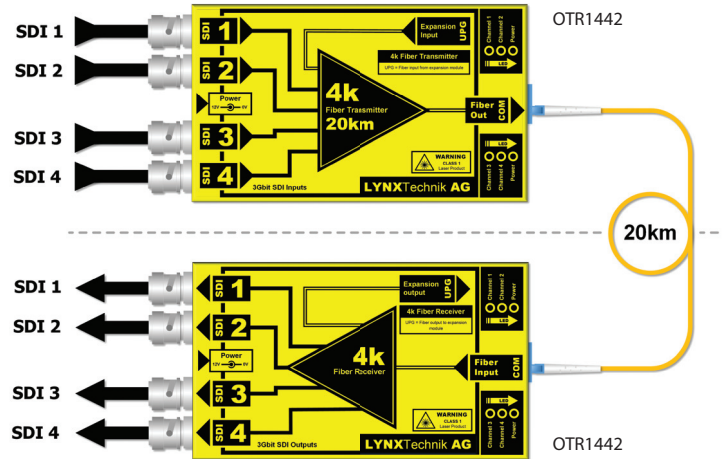
Indicators

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 signals into the single fiber link.



The fiber connection is made between each **COM** port. The **UPG** port is used to connect the OTR 1441 to add 4 more SDI channels, or connect a OBD 1510 E to add Ethernet, or OBD 1510 D to add Serial RS232 and GPI

Power

2 x12VDC 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.

