



### Technical Specifications

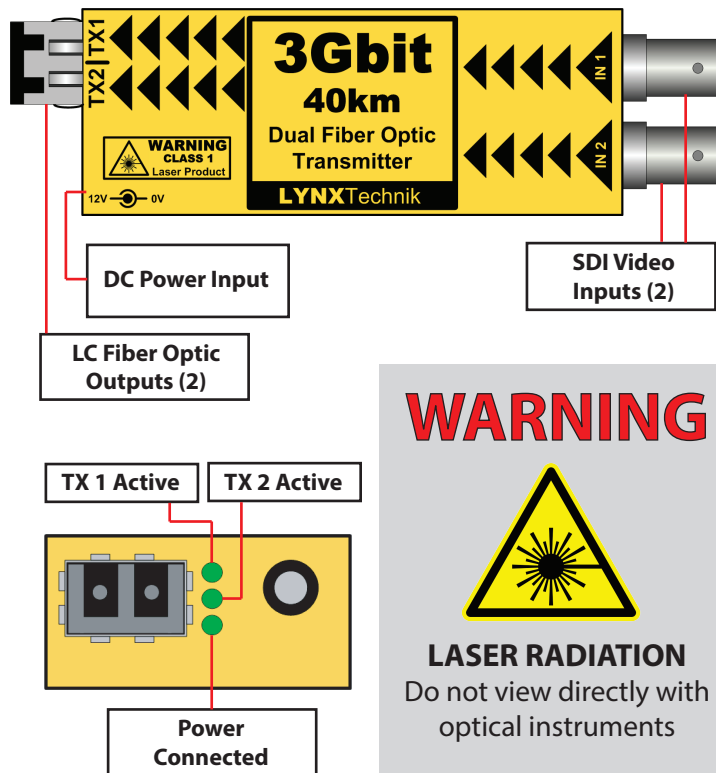
<b>Input</b>	2 x SDI video on 75 Ohm BNC connector SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multirate reclocking 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
<b>Optical Outputs</b>	2 x ber optic outputs (CWDM) Simplex (single mode) using LC/PC Connections SMPTE 297M - 2006 18 Wavelength selections, in pairs - per ITU-T G.694.2 (Note: Specific wavelengths selected at time of order) Optical Power -1dBm (each channel) TX active LEDs on side of module Max. distance 40km (24.8 miles) @ 3Gbit/s (Singlemode)
<b>Power</b>	+12VDC power supply (included) ( supports external power input from 9 - 14 VDC ) Power LED on side of module

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### OTT 1842-1 - CWDM

#### Dual SD/HD/3G SDI to Fiber Optic Transmitters



## WARNING



### LASER RADIATION

Do not view directly with optical instruments

**CLASS 1M LASER PRODUCT**

## Connections

The SDI video input is connected to the 75 Ohm BNC connections (up to 3Gbit). The fiber connection is LC Duplex SMF (Singlemode). An example of the LC connector shown below (fiber Optic cable and LC connectors are not supplied)



### \*Note

The module is a CWDM device and can only be used with SMF (Singlemode fiber). Multimode fiber is not supported.

## Operation

The module supports CWDM and has two independent channels, each with a different wavelength (selected at time of order, installed wavelengths are indicated with a white label on top of the module). Operation is fully automatic. The SDI Input video rates are automatically detected, relocked and transmitted over the optical connections.

The OTT 1842-1 supports any SDI video signal from 270Mbit/s to 3Gbit/s. Maximum distance is 40 km (24.8 miles). Data transmission activity is indicated by the TX LEDs on the side of the module.

**Note.** If TX LED is OFF this indicates no SDI input is present, or not a valid input.

The module supports hot swapping and hot plugging of connections.

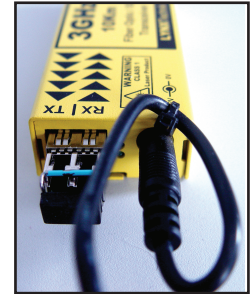
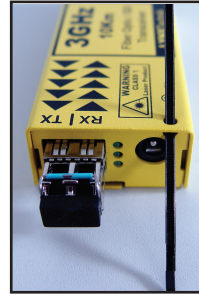
No user settings are provided for this module.

## Power

The module requires a 12V DC power input and a LED is provided to confirm power is connected. A power supply is provided, but if applying your own power, please provide a clean 12V DC power source. Module power consumption is approx 250mA (2.8VA)

## Power Lead Strain Relief

The module has a small hole in the case located above the power connection to prevent the power lead being accidentally pulled out. Use the supplied tie-wrap and secure the lead as shown below.



## Optional Mounting Bracket

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any flat surface or on 19" rack rails.

