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Quick Reference

Technical Specifications

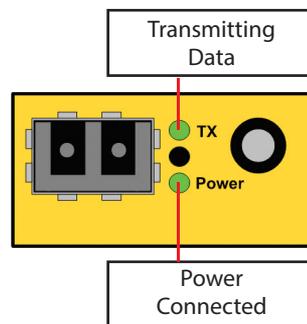
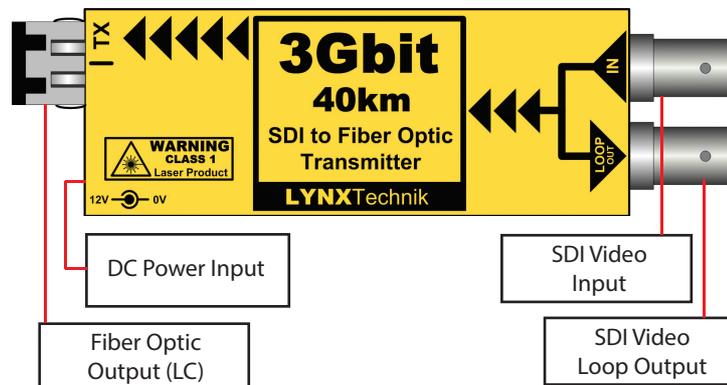
Input	1 x SDI video on 75 Ohm BNC connector with reclocked loop output SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI Multi-standard operation from 270Mbit/s to 3Gbit/s Multirate reclocking: 270Mbit/s - 1.48Gbit/s - 2.97Gbit/s Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Output	1 x fiber optic output Simplex (singlemode) using LC Connection SMPTE 297M - 2006 18 Wavelength selections per ITU-T G.694.2 1270,1290,1310,1330,1350,1370,1390,1410,1430,1450,1470, 1490,1510,1530,1550,1570,1590,1610nm (one selected at time of order) TX power -1dBm Max. distance 40km (24.8 miles) @ 3Gbit/s (single mode)
Power	+ 12VDC power supply (included) Supports external power input from 9 - 14 VDC (1.6W)

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OTX 1842 3Gbit SDI to Fiber Optic Transmitter



WARNING

LASER RADIATION
Do not view directly with optical instruments

CLASS 1M LASER PRODUCT

Connections

The SDI video input and reclocked SDI output are connected to the 75 Ohm BNC connections. The fiber connection is made to the LC connector as indicated on the module. Connection is LC Simplex (single mode*). An example of the LC connector shown below (fiber optic cable and LC connector is not supplied)



*Note

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

The OTX 1842 basic module has no fiber SFP sub module included. The module is typically used for CWDM applications where one of the 18 available wavelengths is selected and installed in the module prior to shipping. The wavelength can be seen on a white label surrounding the cage for the fiber connection.

The module fiber connection is supplied with a rubber plug installed, this is to prevent dust contamination. Please retain the plug and use if the cable is ever disconnected from the module.

Operation

Operation is automatic. Input video format is automatically detected and the video signal is reclocked and then transmitted over the optical connection.

The OTX 1842 supports all SDI video formats from 270Mbit/s to 3Gbit/s, as well as DVB/ASI. Max distance is 40km (24.8 miles). Data transmission activity is indicated by the TX LED on the side of the module.

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

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 7-16V DC power source. Module power consumption is approx 1.8W (with SFP)

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.

