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Quick Reference

Technical Specifications

SDI Video

1 x SDI video input
1 x SDI Video output
75 Ohm BNC connectors

SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M

Multi-standard operation from 1.5bit/s to 12Gbit/s

Multi-rate relocking
1.5Gbit/s - 3Gbit/s - 6Gbit/s - 12Gbit/s

Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz

Automatic cable EQ
260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable)
80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)

Fiber Optic

1 x fiber optic input
(Range 1260-1620nm, Sensitivity (dBm): -10@12Gb/s & 6Gb/s, -14@2.97Gb/s)
1 x fiber optic output
(CWDM - 18 selectable wavelengths - ITU-T G.694.2), TX Power: -2..+3dBm
Duplex (Singlemode) using LC/PC Connections

SMPTE 297M - 2006

Hot pluggable

TX active LED, and RX active on side of module

Single mode transmit / receive (duplex connector)

Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (Singlemode)

Power

+12VDC @ 1.9W nominal without SFP
+12VDC @ 2.7W nominal with SFP
(supports 7 - 24VDC input range)

Please visit the yellobrik website to see all the yellobriks

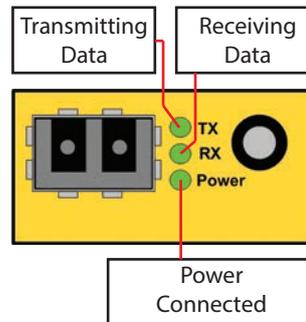
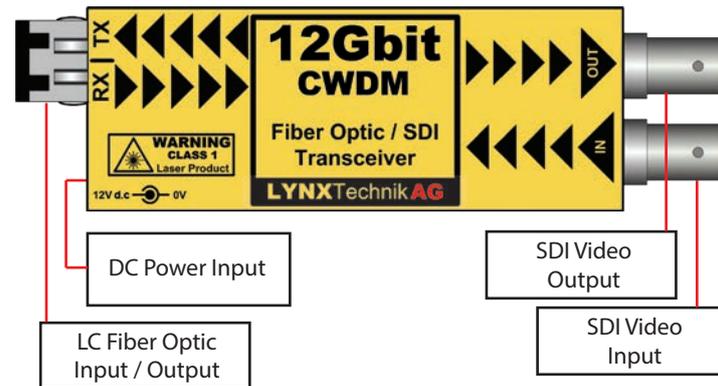
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OTR 1440

12Gbit Fiber Optic / SDI Transceiver (CWDM)



WARNING



LASER RADIATION
Do not view directly with
optical instruments

CLASS 1M LASER PRODUCT

Connections

The SDI video input and output is connected to the corresponding 75 Ohm BNC connections provided (up to 12Gbit). The fiber connections are made to the LC connector as indicated on the module. The connection is LC Duplex (single mode). An example of a single LC connector shown below, one is required for the input and output connection.



Operation

The OTR 1440 combines a CWDM fiber optic transmitter and receiver into a single package. Different video formats up to 12Gbit can be transmitted and received. Operation of the receiver and transmitter is automatic. For transmission, the Input video format is automatically detected and the video signal is relocked and then transmitted over the fiber optic connection. For reception, the received SDI format is detected automatically and provided on the SDI output connection.

The OTR 1440 supports any SDI video signal from 1.5Gbit/s to 12Gbit/s. Max distance is 10 Km (6.2 miles). Data send and receive activity is indicated by the LEDs located on the side of the module. The module supports hot swapping and hot plugging of connections.

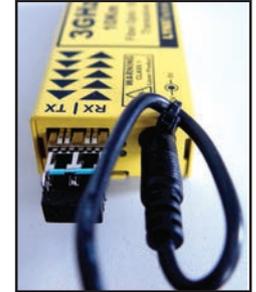
This is a CWDM module and there are 18 different wavelength selections for the fiber transceiver SFP. Wavelength selections are according to ITU-T G 694.2.

Power

The module requires a 12V DC power input and the LED confirms when power is connected. A power supply is provided, however if you use your own power supply, please provide a clean power source between 7 and 24VDC.

Power Lead Strain Relief

The module has a small hole in the case which is located above the power connection. This prevents the power lead from 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.



The optional RFR 1000-1 rack mount can be used to mount up to 14 yellobrik modules permanently. In addition, the RFR 1000-1 can provide full power redundancy for all mounted yellobriks.

