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Quick Reference

Technical Specifications

SDI Video	1 x SDI video input, 1 x SDI output 75 Ohm BNC connectors
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
	Multi-standard operation from 1.5Gbit/s to 12Gbit/s
	Multirate reclocking: 1.5Gbit - 3Gbit - 6Gbit - 12Gbit
	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, 1 x fiber optic output SMF (singlemode) using LC/PC connection
	SMPTE 297M - 2006
	Transmitter: 1310nm, typical Optical power -3dBm
	Receiver: 1260nm - 1620nm (-2dBm to -10dBm)
	Max. distance 10km (6.2 miles) @ 3Gbit/s (Singlemode)
Power	TX active and RX active LEDs on side of module
	+12VDC @ 2.2W nominal (power supply included) (supports 7 - 24VDC input range) Power LED on side of module

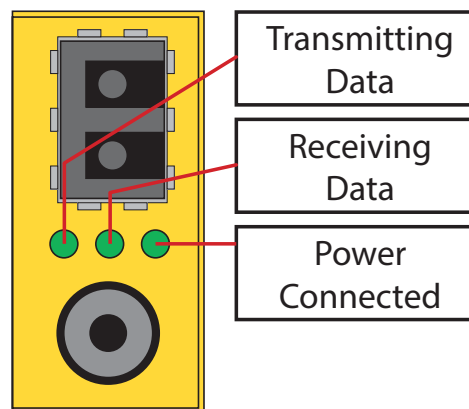
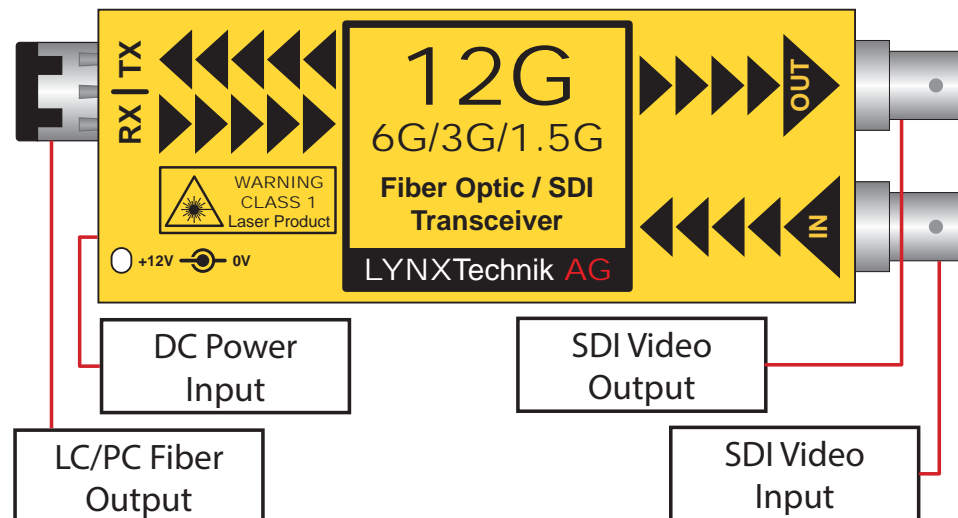
We are constantly adding more yellobrik modules.
Please visit our website for the latest product updates.

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OTR 1410

12G, 6G, 3G, 1.5G SDI Fiber Optic Transceiver



WARNING



LASER RADIATION
Do not view directly with
optical instruments

CLASS 1M LASER PRODUCT

Connections

The SDI video input and output are connected to the 75 Ohm BNC connections (up to 12Gbit). The fiber connection is LC/PC Duplex SMF (singlemode).

The fiber connection comes standard with an installed rubber plug to prevent dust contamination. Please keep the plug for later use if the cable is ever disconnected from the cable.

Operation

The OTR 1410 combines an independent fiber optic transmitter and receiver in a single package. Different SDI video formats and standards (12G, 6G, 3G and 1.5G) can be transmitted and received. For transmission, the SDI video format is automatically detected, reclocked and then transmitted over the fiber optic TX connection. For reception, the optical SDI video input signal on the RX connection is automatically detected, reclocked and provided on the SDI output connection. Maximum distance supported is 10km (6.2 miles). Data transmission and reception activity is indicated by the TX and RX LEDs on the side of the module.

Note: If TX LED is OFF, then this indicates that there is no SDI present or not a valid input. If RX LED is OFF, then this indicates that no optical input signal is connected or the optical input power is too low.

The OTR 1410 is hot swappable and hot pluggable.

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 12V DC power source between 7 and 24VDC.

The OTR 1410 has a power consumption of approximately 2.2W nominal.

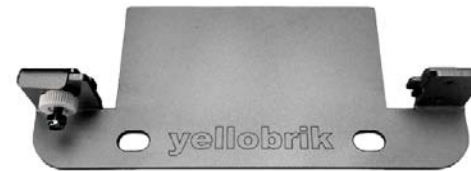
Power Lead Strain Relief

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



Optional Mounting Solutions

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



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

