OTT 1412
Dual Channel 12G SDI to Fiber Transmitter

OTT1412 _R02

Technical Specifications

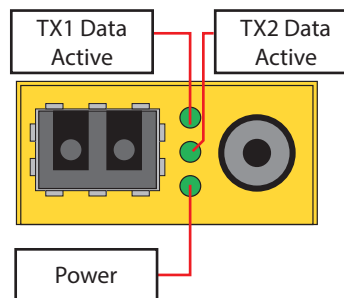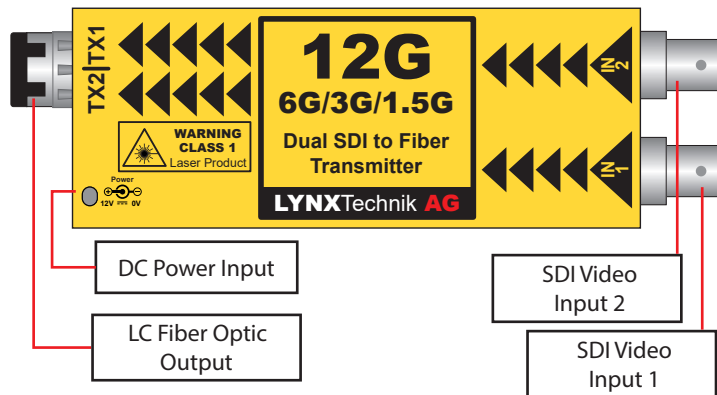| SDI Input	2 x SDI video on 75 Ohm BNC connectors
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M
	Multi-standard operation from 270Mbit/s to 12Gbit/s
	Multirate reclocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s - 6Gbit/s - 12Gbit/s
	Return Loss: >15dB up to 1.5GHz ; >10dB up to 3GHz ; >7dB up to 6GHz ; >12dB up to 12GHz
	Automatic cable EQ 260m @ 1.5Gbit/s ; 150m @ 3Gbit/s (Belden 1694A cable) 80m @ 12Gbit/s , 6Gbit/s (Belden 4794R cable)
Optical Outputs	2 x fiber optic outputs singlemode using LC/PC Connectors
	SMPTE 297M - 2006
	Wavelength 1310nm (each channel)
	Optical power -5.5dBm to +0.5dBm (each channel)
	2x TX data active LEDs on side of module
	Max. distance 10km (6.2 miles) @ 12Gbit/s (Singlemode)
Power	+12V DC @ 2.47W nominal - (power supply included) (supports 7 - 24V DC input range) Power LED on side of module

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

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LYNXTechnik AG® | Broadcast Television Equipment

12G
6G/3G/1.5G
Dual SDI to Fiber Transmitter
LYNXTechnik AG

TX2|TX1

WARNING CLASS 1 Laser Product

Power 12V 0V

DC Power Input

LC Fiber Optic Output

SDI Video Input 2

SDI Video Input 1

TX1 Data Active

TX2 Data Active

Power

WARNING: Module laser is active as soon as power is connected, **regardless of LED indication**
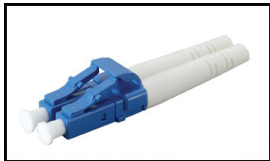
WARNING

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 12G). 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 designed for use with SMF (Singlemode) fiber cable. While it is possible to use Multimode cable, performance (distance) is greatly degraded and not guaranteed.

Use the included dust plug to protect the optical connection from dust.

Operation

The OTT 1412 supports any SDI video signal from 270Mbit/s to 12Gbit/s. Maximum distance is 10km (6.2 miles)*. Data transmission activity is indicated by the TX LEDs on the side of the module.

The module has two identical (and fully independent) channels. Operation is fully automatic. For reception, the received SDI format is detected automatically and provided on the optical output connection (up to 12G). The module supports hot swapping and hot plugging of connections. No user settings are provided for this 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 clean 12V DC (7-24V DC) power source. An LED is provided to confirm power is connected. A 12V DC power supply is included with the module. If you are applying your own power source, please provide a clean, 7-24V DC power source. Power consumption information can be found in the technical specifications table.

Power Lead Strain Relief

The modules have 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.
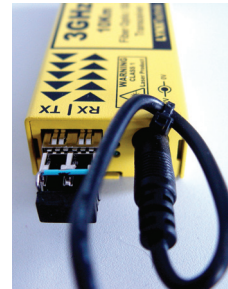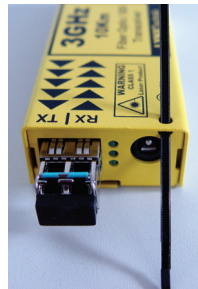
Optional Mounting Brackets

The optional RFR 1001 mounting brackets can be used to permanently mount the modules on any flat 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.

Note: OTT 1412 is identical in terms of mounting and securing