



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 relocking 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
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

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.

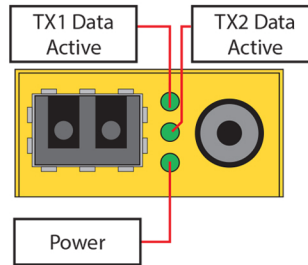
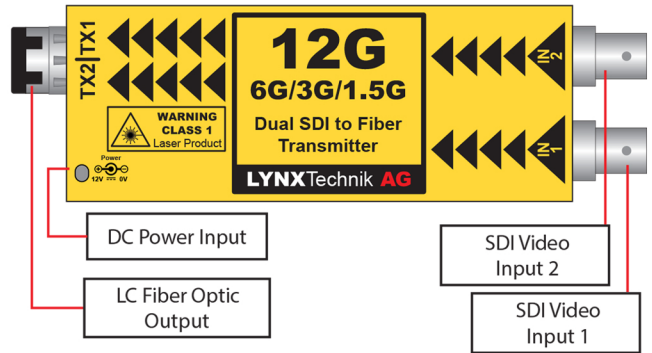
The module has two identical (and fully independent) channels. Operation is fully automatic. For reception, the received SDI format is detected automatically and provided on the optical output connection (up to 12G). The module supports hot swapping and hot plugging of connections. No user settings are 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.

OTT 1412 Dual Channel 12G SDI to Fiber Transmitter



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

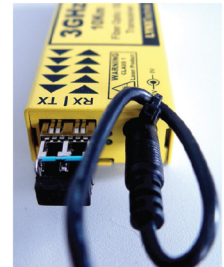
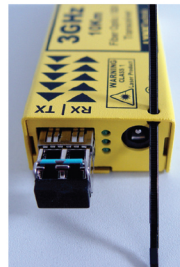
WARNING

LASER RADIATION
Do not view directly with optical instruments

CLASS 1M LASER PRODUCT

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.

