

Technical Specifications

SDI Video	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 Multi-rate reclocking: 270Mbit/s to 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)
Fiber	1x 12G-SDI Dual Transmitter SFP Duplex LC connectors Single-mode, 1310nm or CWDM SMPTE 297M - 2006 Side-mounted TX activity LEDs
Power	+12V DC @ 2.47W nominal - (supports 7 - 24V DC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") incl. connectors Weight: 125g (4.4oz)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OTT 1412	Single	Single	1310nm	Yes
OTT 1412 CW	Single	Coarse	1270 - 1610nm	No



WARNING
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 LASER RADIATION

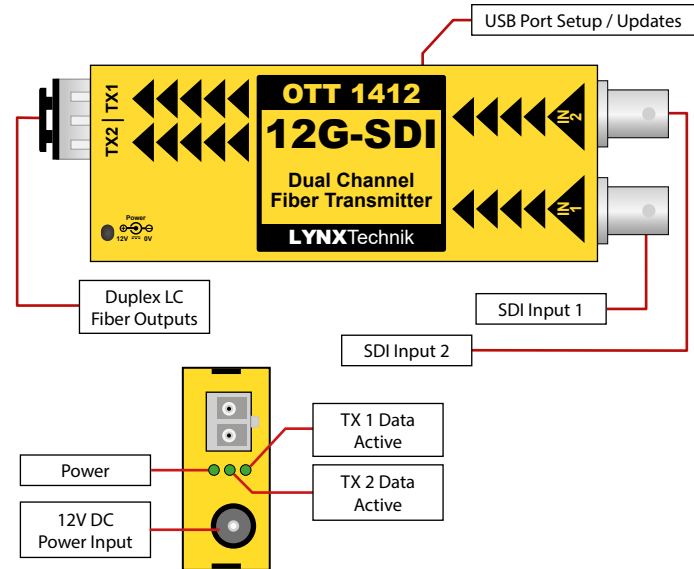
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OTT 1412

2-Channel 12G-SDI to Fiber Transmitter



The OTT 1412 is a compact 2-channel 12G-SDI fiber transmitter for long-distance transport of uncompressed broadcast-quality video. It supports two independent SDI signals up to 4K/60fps. It detects and re-clocks SDI signals before transmission and supports single-mode SFP transmitters for 1310nm and CWDM.

Connections

The SDI inputs are connected to the 75 Ohm BNC connections. The fiber interface supports LC/PC duplex connections with single or coarse wavelengths. To protect the optical interface from dust and contamination, keep the supplied dust plug installed whenever the fiber connection is not in use.

A USB port is provided for firmware updates, configuration, and monitoring. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

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.

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	"Locate Module" function active
	Red (blinking)	Hardware Issues
	Off	Device Not Powered

TX LED		
	Green	Output Signal Active
	Off	No Input Signal Detected, No Signal Transmitted (Laser Active)

Distances

- OTT 1412 Single-mode 1310nm: up to 10km (6.2 miles)
- OTT 1412 CW Single-mode Coarse Wavelengths: up to 10km (6.2 miles)

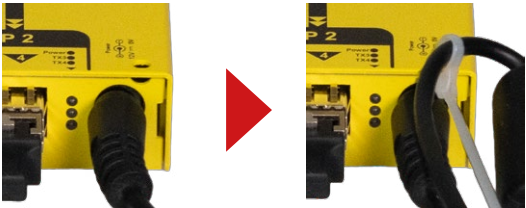
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–24V DC source is required.

The OTT 1412 has a power consumption of 2.47W (including SFP).

Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19" rack rails.



The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.

