

Technical Specifications

SDI Video	1x 12G-SDI input on 75 Ohm BNC connector
	1x 12G-SDI output on 75 Ohm BNC connector
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M
	Multi-standard operation from 270Mbit/s to 12Gbit/s
Fiber	Automatic cable EQ: 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable), 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)
	1x Fiber input, 1x Fiber output
	Duplex LC/PC connectors
	Single-mode Standard 1310nm or CWDM
Power	SMPTE 297M - 2006
	Side-mounted TX/RX activity LEDs
Power	+12V DC @ 2W 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
OTR 1410	Single	Standard	1310nm	Yes
OTR 1410 CW	Single	CWDM	1270 - 1610nm	No



WARNING
CLASS 1M LASER PRODUCT
LASER RADIATION

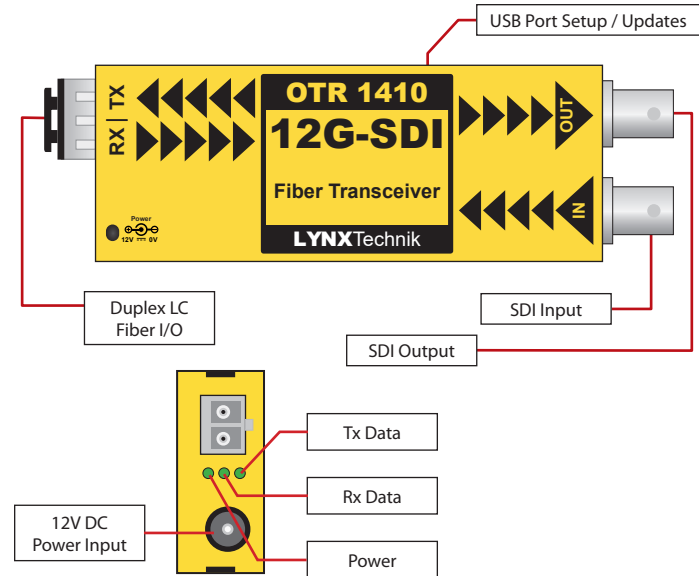
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OTR 1410

12G-SDI to Fiber Transceiver



The OTR 1410 is a compact fiber transceiver combining an independent transmitter and receiver in a single unit. It supports uncompressed 12G-SDI signals up to 4K/60fps, with automatic detection and re-clocking of 12G, 6G, 3G, HD, and SD-SDI inputs. Available with standard 1310nm and CWDM single-mode SFP options.

Connections

The SDI input and output are connected to the 75 Ohm BNC connections. The fiber interface supports LC/PC duplex connections with dense 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 OTR 1410 combines an independent fiber optic transmitter and receiver in a single package. Different SDI video formats and standards (12G, 6G, 3G, 1.5G and 270M) can be transmitted and received.

For transmission, the SDI video format is automatically detected, relocked and then transmitted over the fiber optic TX connection. For reception, the optical SDI video input signal on the RX connection is automatically detected, relocked and provided on the SDI output connection. Data transmission and reception activity is indicated by the TX and RX LEDs on the side of the 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)
RX LED		
	Green	Valid Signal Received
	Green/Red	Incompatible Input Signal
	Off	No Signal Detected

Distances

OTR 1410	Single-mode Standard 1310nm: up to 10km (6.2 miles)
OTR 1410 CW	Single-mode CWDM: up to 10km (6.2 miles)

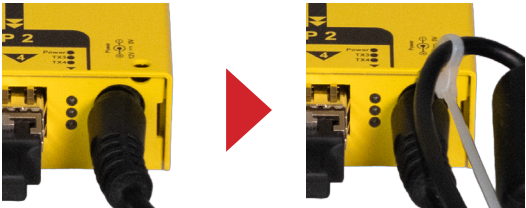
Power

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 OTR 1410 has a power consumption of 2W (including SFP).

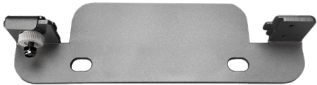
Power Lead Strain Relief

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.

