

12G-SDI to Fiber Transceiver

LYNX | Centraal™

yelloGUI



Features

- Support 12G/6G/3G/1.5G/SD-SDI Standards
- Auto Reclocking
- Error free fiber connections
- Single-mode, Single and Coarse SFPs
- 18 CWDM wavelengths as defined by ITU-T G.694.2
- Up to 10km (6.2 miles) @ 12Gbit/s
- Hot swapping and hot plugging

Description

The OTR 1410 fiber transceiver combines an independent fiber transmitter and receiver in a single, self-contained unit. It enables reliable handling of 12G-SDI signals up to 4K 60fps in 4:4:4 12-bit while preserving full, uncompressed quality.

The module automatically detects and re-clocks 12G, 6G, 3G, 1.5G, and SD-SDI inputs prior to optical conversion, and is fully compatible with both 3G Level A and Level B formats.

This module includes a mini USB port for real-time signal presence monitoring and firmware updates.

Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector					
	1x 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					
	Reclocking: 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, 12Gbit/s					
	Automatic cable EQ	270Mbit/s	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		250m	220m	150m	80m	80m
		Belden 1694A			Belden 4794R	
	Fiber	1x 12G-SDI Transceiver SFP				
	Duplex LC Connector					
	SMPTE 297M - 2006					
	Single-mode 1310nm or CWDM					
	TX & RX active LEDs on side of module					
Power	+12V DC @ 2W nominal - (supports 7 - 24V DC input range)					
	Power LED on side of module					
Physical	Size	140mm x 42mm x 22mm				
	(incl. connectors)	(5.51" x 1.65" x 0.86")				
	Weight	125g (4.4oz)				
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)					
Includes	Module, AC power supply, SFP depending on model					

Ordering Information

Model	Mode	Type	TX Wavelength	TX Power	RX Input Range	RX Sensitivity	Distance (up to)	SFP Included
OTR 1410	Single-mode	Single	1310nm	-2dBm	1260 - 1620nm	-10dBm	10 km, 6.2 mi	Yes
OTR 1410 CW	Single-mode	Coarse	1270 - 1610nm	+1dBm	1260 - 1620nm	-10dBm	10 km, 6.2 mi	No

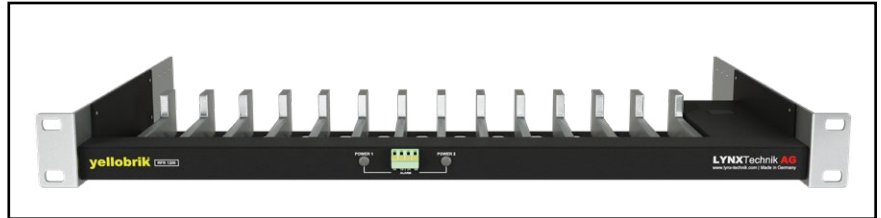
Optional Accessories

Rack Frames

This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

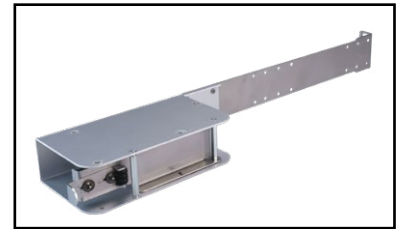
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



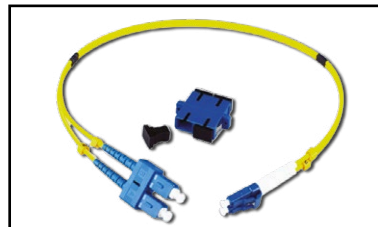
RXT 1001: Power Supply Holder

Fiber Adapter Cables

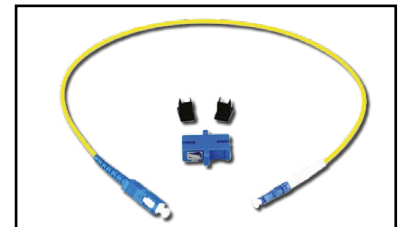
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

To still allow the necessary flexibility in a professional setting we offer patch cables to convert LC to ST or SC fiber connections. These patch cables' insertion loss and return loss are manually checked for each individual cable to allow for maximum precision when calculating the optical budget

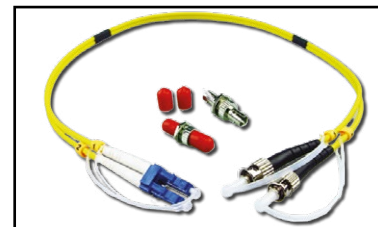
Besides the selection here we offer LC/FC and LC/LC patch cables.



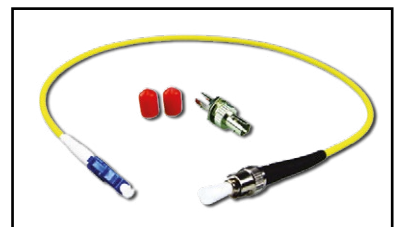
LC/SC Dup: LC/SC Duplex adapter cable



LC/SC Sim: LC/SC Simplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/ST Sim: LC/ST Simplex adapter cable

Power Adapter Options

The power requirements of this yellobrik allow for the usage of P-Tap or XLR connection based power sources.

Note: This does not replace the included power supply.



P-TAP 1000
Use with a standard battery P-TAP power source.



XLR 1000
Use with a standard 4 pin XLR camera battery power source.