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OTR 1414

LYNX | Centraal™ ✓ yelloGUI ✓

4-Channel 12G-SDI Fiber Transceiver



Features

- Quad Channel 12G-SDI fiber receiver / transmitter in single package
- Supports 12G-SDI video inputs up to 2160p60
- 3G-SDI Level A and Level B (support for all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, and 12Gbit/s
- Error free optical transmission
- Distance up to 10km* (6.2 miles) @ 12Gbit/s (single-mode)
- Hot swappable and hot pluggable

Description

The OTR 1414 is a 4-Channel 12G-SDI fiber transceiver. Its form factor makes it a convenient solution to optimize the distribution of uncompressed, high bandwidth, broadcast quality video signals over long distances.

Each OTR 1414 transceiver has two independent transmitter and receiver channels, which provides an effective solution for any SDI signal up to 12G-SDI (4096×2160 @ 60Hz), while preserving full uncompressed quality.

Operation of the receiver and transmitter is automatic. For transmission, the SDI video format is automatically detected, reclocked and then transmitted over the optical fiber TX connection. For reception, the optical video input is automatically detected, reclocked and provided on the SDI output connection.

*Distance is an approximation. Determine link losses and the optical budget for the entire path.

Technical Specifications

SDI Video	2x 12G-SDI inputs on 75 Ohm BNC connectors 2x 12G-SDI outputs on 75 Ohm BNC connectors					
	SMPTE 2082-1, 2081-1, 424M, 292M and 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		
		250m	220m	150m	80m	80m
		Belden 1694A				Belden 4794R
Fiber Optic	2x fiber inputs, 2x fiber outputs 2x Duplex (singlemode) transceivers using LC/PC connection					
	SMPTE 297M - 2006					
	Single-mode Standard 1310nm or CWDM					
	TX & RX active LEDs on side of module					
Power	+12V DC @ 3.4W excl. SFPs - (supports 7 - 24V DC input range)					
	Power LED on side of module					
Physical	Size (incl. connectors)	140mm x 83.8mm x 22mm (5.51" x 3.29" x 0.86")				
	Weight:	168g/6oz excl. SFPs, 268g/9.5oz incl. SFPs				
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)					
Includes	Module, Power Supply, 2x TR SFPs (only non-CWDM version)					

Ordering Information

Model	Mode	Type	Tx Wavelength	Tx Power	Rx Input Range	Rx Sensitivity	Distance (up to)	SFP Included
OTR 1414	Single-mode	Standard	1310nm	-2dBm	1260 - 1620nm	-10dBm	10 km, 6.2 mi	Yes
OTR 1414 CW	Single-mode	CWDM	1270 - 1610nm	+1dBm	1260 - 1620nm	-10dBm	10 km, 6.2 mi	No

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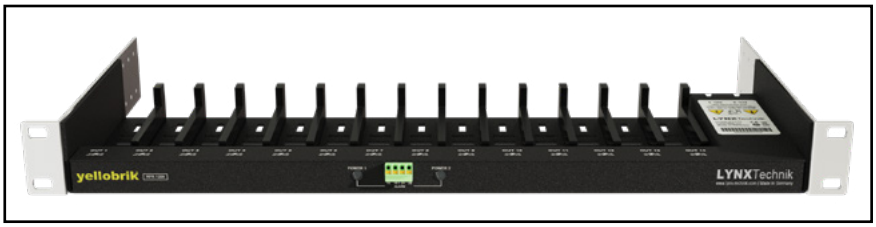
Optional Accessories

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.

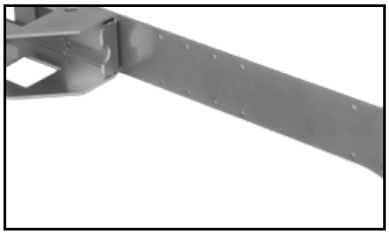
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT A100 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



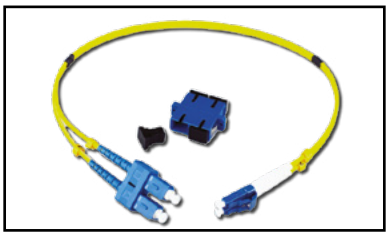
RXT A100: Power Supply Holder

Fiber Adapter Cables

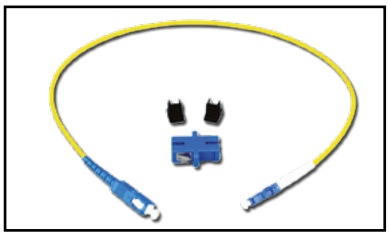
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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 less and return loss are manually checked for each indiviQuad cable to allow for maximum precision when calculating the optical budget

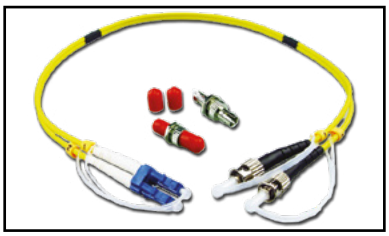
Besides the selection here we offer LC/FC and LC/LC patch cables.



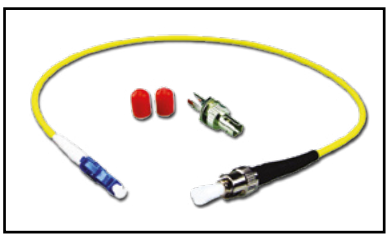
LC/SC Dup: LC/SC Duplex adapter cable



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.