yellobrik®

OTR 1814

LYNX | Centraal™ yelloGUI

4-Channel 3G-SDI Fiber Transceiver

Features

- Quad Channel 3G-SDI fiber receiver / transmitter in single package
- Supports 3G-SDI video inputs up to 1080p60
- 3G-SDI Level A and Level B (support for all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- Error free optical transmission
- Duplex LC/PC singlemode optical connection
- Distance up to 10km* (6.2 miles) with non-CWDM
- Distance up to 80km* (50 miles) with CWDM SFPs
- Hot swappable and hot pluggable
- Support CWDM, non-CWDM and Multi-mode SFPs

Description

The OTR 1814 is a 4-Channel 3G-SDI fiber transceiver. Its form factor makes it a convenient and cost-effective solution to optimize the distribution of uncompressed, high bandwidth, broadcast quality video signals over long distances.

Each OTR 1814 transceiver has two independent transmitter and receiver channels, which provides an effective solution for any SDI signal up to 3G-SDI (2048 × 1080 @ 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 SDI video input signal on the RX connection is automatically detected, reclocked and provided on the SDI output connection.

The OTR 1814 supports 3G-SDI, 1.5G-SDI, 270M-SDI video standards.

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

Technical Specifications

SDI Video	2x 12G-SDI input on 75 Ohm BNC connectors 2x 12G-SDI output on 75 Ohm BNC connectors			
	SMPTE 424M, SMPTE 292M, SMPTE 259M			
	Multi-standard operation from 270Mbit/s to 3Gbit/s			
	Multirate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s			
	Automatic cable EQ	270Mbit/s	1.5Gbit/s	3Gbit/s
		250m	220m	150m
		Belden 1694A		
Fiber Optic	2x fiber inputs, 2x fiber outputs 2x Duplex (singlemode) transceivers using LC/PC connection			
	SMPTE 297M - 2006			
	Transmitter	Wavelength	1310nm	
		Optical power	-3dBm (typ)	
	Receiver	Wavelength	1260nm - 1620nm	
		Sensitivity	-2dBm to -10dBm	
	Max. distance*	10km (6.2 miles) with non-CWDM 40km (25 miles) & 80km (50 miles) with CWDM SFPs		
	TX & RX active LEDs on side of module			
Power	+12V DC @ 2.4W 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 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)			
Model #	OTR 1814	4250479329652		
	OTR 1814 CW	4250481229933		
	OTR 1814 MM	4250481329947		
Includes	Module, Power Supply, 2x TR SFPs (only non-CWDM version)			

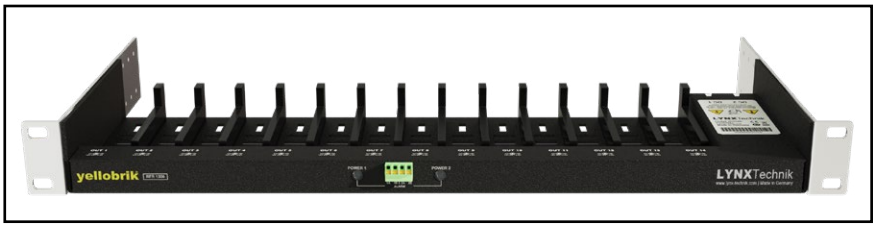
Optional Accessories

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.

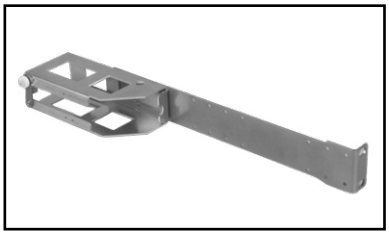
The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

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



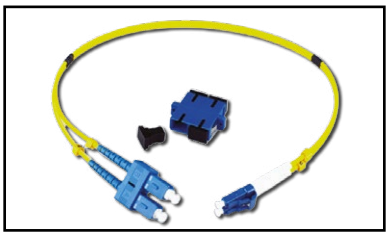
RXT A100: Power Supply Holder

Fiber Adapter Cables

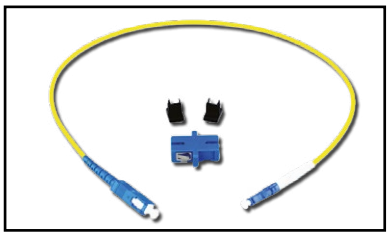
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

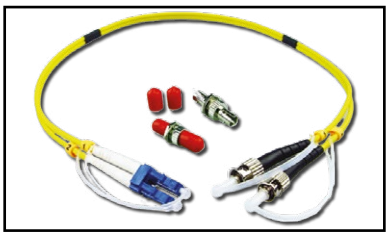
Besides the selection here we offer LC/FC and LC/LC patch cables.



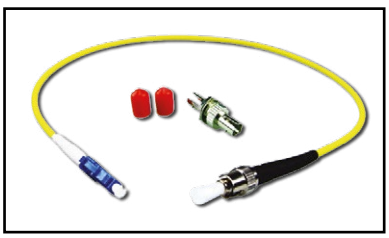
LC/SC Dup: LC/SC Duplex adapter cable



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.