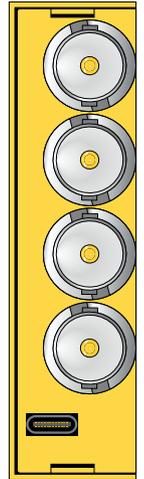
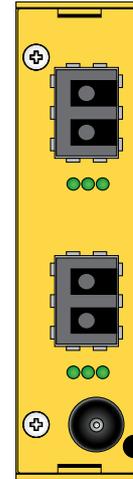


## 4-Channel 12G-SDI Fiber Transceiver

LYNX | Centraal™

yelloGUI✓



### 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
- Duplex LC/PC singlemode optical connection
- Distance up to 10km\* (6.2 miles) @ 12Gbit/s (singlemode)
- Hot swappable and hot pluggable

### Description

The OTR 1414 is a 4-Channel 12G-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 1414 transceiver has two independent transmitter and receiver channels, which provides an effective solution for any SDI signal up to 12G-SDI (4096x2160 @ 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 1414 supports 12G-SDI, 6G-SDI, 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 inputs on 75 Ohm BNC connectors  
2x 12G-SDI outputs 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

Multirate 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 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)	@ 12Gbit/s

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)

#### Model #

OTR 1414	4250479329652
OTR 1414 CW	4250481129929

#### Includes

Module, Power Supply, 2x TR SFPs (only non-CWDM version)

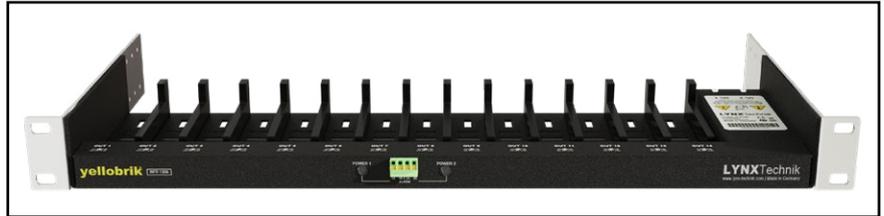
## Optional Accessories

### 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 LynxCentral.

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

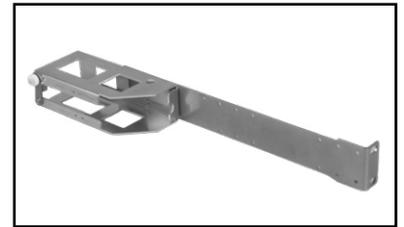
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT A100 power supply holder for rack frames.



**RFR 1200:** yellobrik Rack Frame



**RPS A100:** 100W Power supply



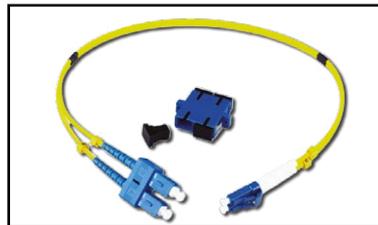
**RXT A100:** Power Supply Holder

### Fiber Adapter Cables

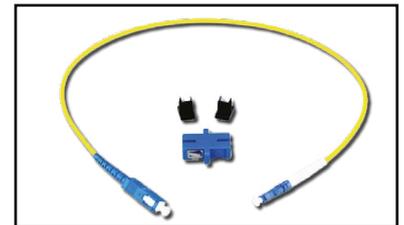
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

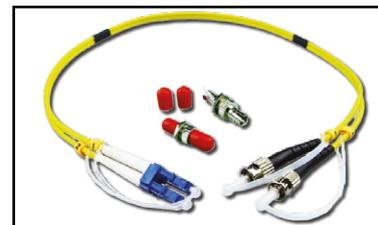
Besides the selection here we offer LC/FC and LC/LC patch cables.



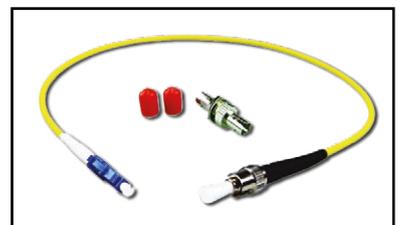
**LC/SC Dup:** LC/SC Duplex adapter cable



**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.