

MADI/Fiber Transceiver

LYNX | Centraal™

yelloGUI



Features

- Bi-Directional MADI to Fiber converter
- Supports up to 64 channels of audio I/O
- Real time conversion with no degradation of signal quality
- Single-mode, Multi-mode and CWDM versions
- Up to 10km (6.2 miles) using Single-mode fiber
- Up to 2km (1.2 miles) using MADI Multi-mode SFP
- Up to 40km (25miles) using Single-mode CWDM
- Duplex LC fiber connections
- Hot swapping and hot plugging

Description

The OTR 1210 is a MADI fiber transmitter and receiver combined in a single package. The module is designed to convert up to 64 audio channels bi-directionally (64 In & 64 Out) between MADI Optical and MADI Coaxial formats. The conversion is done in real time (no latency) and does not degrade the signal quality.

Three versions are available:

- OTR 1210** Single-mode (Single) fiber at 1310nm for distances up to 10km
- OTR 1210 MM** Multi-mode version for distances up to 2km using the MADI OH-TR-MADI-1310-MM SFP and 550m with the 3G-SDI MADI-compatible OH-TR-0-850-MM SFP.
- OTR 1210 CW** Single-mode coarse wavelength (CWDM) fiber. CWDM enables flexible wavelength planning, longer distances up to 40km and scalable fiber deployment.

Technical Specifications

Coax Input	1 x 75 Ohm BNC connector Supported standards: AES10-2008 Cable length* 250m (Belden 1694A)
Coax Output	1 x 75 Ohm BNC connector Amplitude: 750mV P/P Cable length* 250m (Belden 1694A)
Fiber	1x MADI Transceiver SFP Duplex LC connectors TX active and RX active LEDs on side of module Single-mode 1310nm, Multi-mode or CWDM Side-mounted TX/RX activity LEDs
Power	+12V DC @ 1.7W nominal - (supports 7 - 24VDC 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 1210 LC	Single-mode	Single	1310nm	-5dBm	1260 - 1620nm	-16dBm	10 km, 6.2 mi	Yes
OTR 1210 MM 850	Multi-mode	Short Range	850nm	-4dBm	780 - 880nm	-15dBm	300m, 1000 ft	Yes
OTR 1210 MM 1310	Multi-mode	Short Range	1310nm	-17dBm	1270 - 1620nm	-30dBm	2km, 1.2 mi	Yes
OTR 1210 CW	Single-mode	Coarse	1270 - 1610nm	-1dBm	1260 - 1620nm	-20dBm	40 km, 25 mi	No

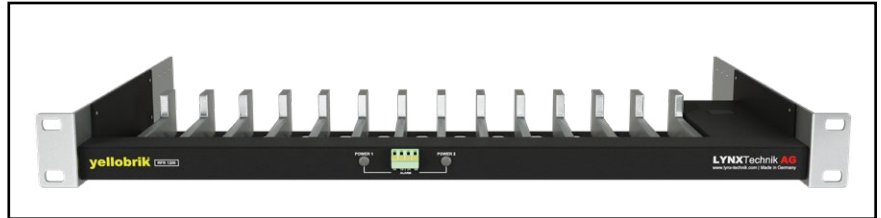
Optional Accessories

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.

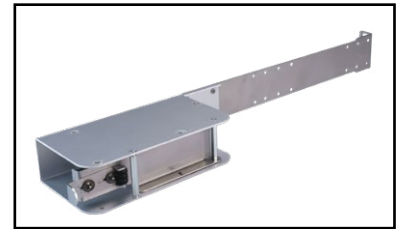
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



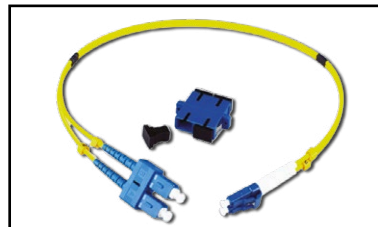
RXT 1001: Power Supply Holder

Fiber Adapter Cables

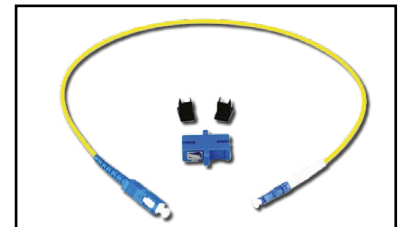
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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.

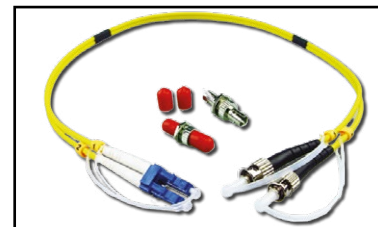
Besides the selection here we offer LC/FC and LC/LC patch cables.



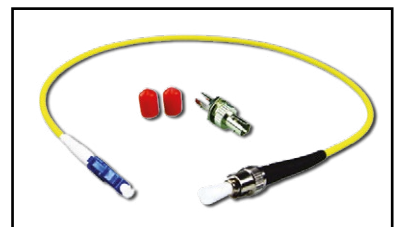
LC/SC Dup: LC/SC Duplex adapter cable



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.