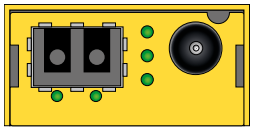
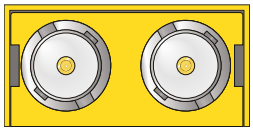
yellobrik®

OTR 1210
OTR 1210 MM-850
OTR 1210 MM-1310

LYNX | Centraal™ ✓ yelloGUI ✓

MADI/Fiber Transceiver





Features

- MADI Optical to MADI Coaxial converter
- Supports up to 64 channels of audio (IN and OUT)
- Real time conversion with no degradation of signal quality
- Singlemode and Multimode versions
- Distance up to 10km* (6.2 mi) using Singlemode fiber
- Distance up to 550m/2km* (1800ft/1.2mi) using Multimode fiber
- Duplex LC single- or multimode optical connections
- Supports 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 bidirectionally (64 IN & 64 OUT) between MADI Optical and MADI Coaxial (electrical) formats. Conversion is real time [no latency] and does not degrade the signal quality.

The OTR 1210 is compact and cost-effective solution to extend the reach of MADI audio over long distances. When paired with another OTR 1210 at the receiving end (using two fiber links) you have a cost-effective, zero latency MADI extender system. Two versions are available. The singlmode fiber version will transport MADI over distances up to 10km*, and the multimode version up to 2km*.

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 Optic	1 x fiber optic input 1 x fiber optic output Duplex connection using LC/PC Connections		
	TX active and RX active LEDs on side of module		
	Singlemode Version: OTR 1210		
	Transmitter	Wavelength	1310nm
		Optical Power	-9dBm to -3dBm
	Receiver	Wavelength	1260nm to 1620nm
		Sensitivity	-23dBm (max)
	Max. Distance*	10km (6.2 miles)	
	Multimode Version: OTR 1210 MM-850		
	Transmitter	Wavelength	850nm
		Optical Power	-7dBm to -2dBm
	Receiver	Wavelength	850nm
		Sensitivity	-15dBm (min)
	Max. Distance*	550m (1800 feet)	
	Multimode Version: OTR 1210 MM-1310		
	Transmitter	Wavelength	1310nm
		Optical Power	-20dBm to -14dBm
	Receiver	Wavelength	1270nm to 1620nm
		Sensitivity	-30dBm
	Max. Distance*	2km (1.2 miles)	
Power	+12V DC @ 1.7W nominal - (supports 7 - 24VDC input range)		
	Power LED on side of module		
Physical	Size (incl. connectors)	140mm x 42mm x 22mm (5.51" x 1.65" x 0.86")	
	Weight	125g (4.4oz)	
Ambient	5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)		
Model #	OTR 1210	EAN# 4250479324671	
	OTR 1210 MM-850	EAN# 4250479324688	
	OTR 1210 MM-1310	EAN# 4250479326224	
Includes	Module, SFP Module, power supply		

*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.

Optional Accessories

Rack Frames

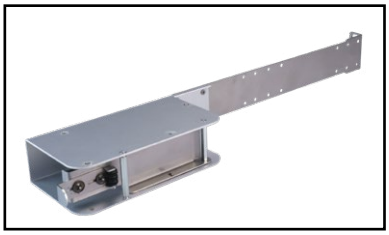
This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

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



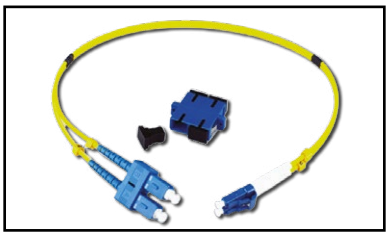
RXT 1001: Power Supply Holder

Fiber Adapter Cables

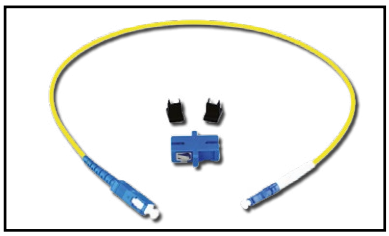
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

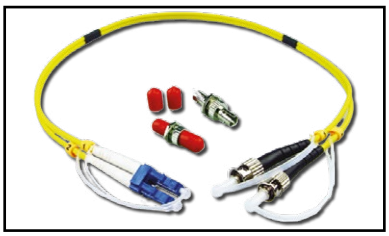
Besides the selection here we offer LC/FC and LC/LC patch cables.



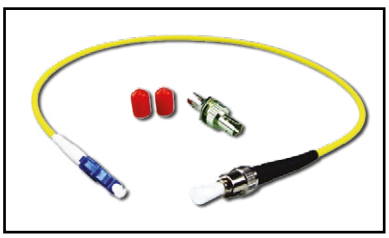
LC/SC Dup: LC/SC Duplex adapter cable



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.