

Technical Specifications

Coax Input	1x 75 Ohm BNC connector Supported standards: AES10-2008 (MADI) Cable length 250m (Belden 1694A)
Coax Output	1x 75 Ohm BNC connector Amplitude: 750mV P/P Cable length 250m (Belden 1694A)
Fiber	1x Fiber input, 1x Fiber output Duplex LC/PC connectors Single-mode, Multi-mode or CWDM SMPTE 297M - 2006 Side-mounted TX/RX activity LEDs
Power	+12V DC @ 1.7W nominal - (supports 7 - 24V DC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") incl. connectors Weight: 125g (4.4oz)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OTR 1210 LC	Single	Single	1310nm	Yes
OTR 1210 MM 850	Multi	Short Range	850nm	Yes
OTR 1210 MM 1310	Multi	Short Range	1310nm	Yes
OTR 1210 CW	Single	Coarse	1270 - 1610nm	No



WARNING
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LASER RADIATION

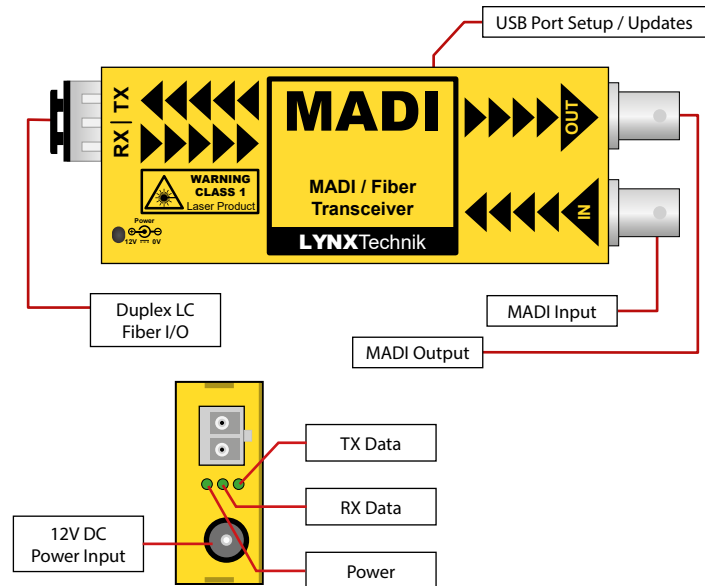
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OTR 1210

MADI Coax to Fiber Transceiver



The OTR 1210 is a compact MADI fiber transceiver that converts up to 64 bidirectional audio channels between MADI Optical and MADI Coaxial formats in real time, with no latency or signal degradation. It is available in 1310nm single-mode, multi-mode, and CWDM versions.

Connections

The MADi input and output are connected to the 75 Ohm BNC connections. Depending on the model, the fiber interface supports LC/PC duplex SMF, MMF, or CWDM connections. To protect the optical interface from dust and contamination, keep the supplied dust plug installed whenever the fiber connection is not in use. A USB port is provided for firmware updates, configuration, and monitoring. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

Operation

The OTR 1210 exclusively supports transmission of MADi signals according to AES10-2008. It is used to convert coaxial MADi signals (up to 64 channels IN and OUT) into fiber for use in long distance applications.

The electrical / optical conversion introduces no delay (zero latency) and no signal degradation. Operation is fully automatic. There are no user adjustments for the module. The module supports hot swapping and hot plugging of all connections.

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	"Locate Module" function active
	Red (blinking)	Hardware Issues
	Off	Device Not Powered
TX LED		
	Green	Output Signal Active
	Off	No Input Signal Detected, No Signal Transmitted (Laser Active)
RX LED		
	Green	Valid Signal Received
	Green/Red	Incompatible Input Signal
	Off	No Signal Detected

Distances

OTR 1210	Single-mode 1310nm: up to 10km (6.2 miles)
OTR 1210	MM 850 Multi-mode: up to 550m (1800 feet)
OTR 1210	MM 1310 Multi-mode: up to 2km (1.2 mile)
OTR 1210	CW Single-mode Coarse Wavelengths: up to 40km (25 miles)

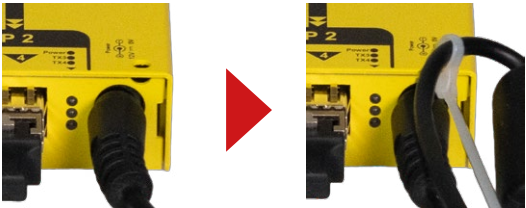
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–24V DC source is required.

The OTR 1210 has a power consumption of 1.7W (including SFP).

Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19" rack rails.



The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.

