



# yellobrik®

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## Quick Reference

## Technical Specifications

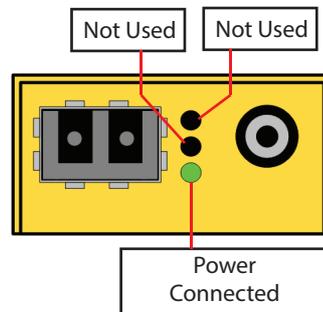
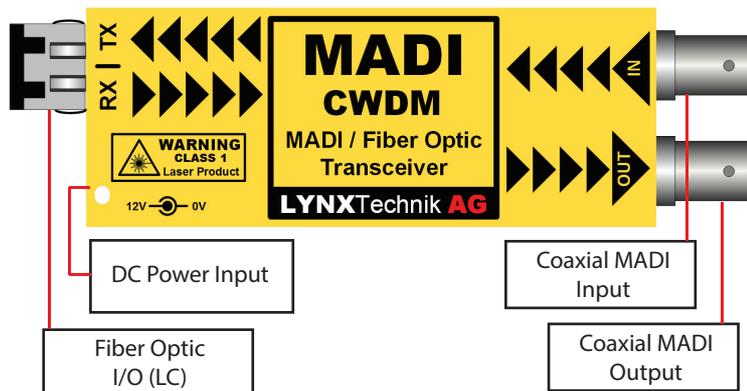
<b>Coax Input</b>	1 x 75 Ohm BNC connector
	Supported standards: AES10-2008
	Cable length 250m ( Belden 1694A )
<b>Coax Output</b>	1 x 75 Ohm BNC connector
	Amplitude: 750mV P/P
	Cable length 250m ( Belden 1694A )
<b>Fiber Optic</b>	<b>1 x fiber optic input</b> (Input Range 1270-1610nm, Sensitivity -3dBm to -23dBm)
	<b>1 x fiber optic output</b> CWDM (ITU-T G.694.2) 18 selectable wavelengths - 1270,1290,1310,1330,1350,1370,1390,1410,1430,1450,1470,1490 1510,1530,1550,1570,1590,1610nm Duplex connection using LC Connections
	Output power +2dBm
	Max. Distance approx. 40km (24.8 miles - Singlemode)
	<b>Power</b>

Please visit the yellobrik website to see all the yellobriks

[www.yellobrik.com](http://www.yellobrik.com)

**LYNXTechnik AG** | [www.lynx-technik.com](http://www.lynx-technik.com)

## OTR 1240 MADI / Fiber Transceiver (CWDM)



## WARNING



**LASER RADIATION**  
Do not view directly with  
optical instruments

**CLASS 1M LASER PRODUCT**

## Connections

The MADI coaxial input and output is connected to the corresponding 75 Ohm BNC connections provided. The fiber connections are made to the fiber SFP sub module as indicated on the module.

The Module uses a dual LC simplex connection. Please ensure the fiber cable used is Singlemode (Multimode cable does not support CWDM)

The module fiber connection is supplied with a rubber plug installed, this is to prevent dust contamination. Please retain the plug and use if the cables are ever disconnected from the module. An example of a LC connector is shown below:



## Operation

The OTR 1240 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 there is no signal degradation. Operation is fully automatic (plug and play) there are no user adjustments for the module.

The module supports hot swapping and hot plugging of all connections.

## Power

The module requires a 7-16VDC power input (12VDC nominal) an LED is provided to confirm power is connected. A 12VDC power supply is provided, but if applying your own power, please provide a clean 7-16VDC power source. Module power consumption is approx 2.7W

**Do not exceed 16VDC power input as module damage will result**

## CWDM Fiber

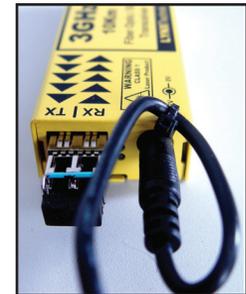
The OTR 1240 module is designed for use in CWDM (multiplexed) systems and 18 transmitter wavelengths are available according to ITU-T G.694.2 which are:

1270,1290,1310,1330,1350,1370,1390,1410,1430,1450,1470,1490,1510,1530,1570,1590,1610nm

The receiver will capture any signal between 1270nm and 1610nm

## Power Lead Strain Relief

The module has a small hole in the case located above the power connection to prevent the power lead being accidentally pulled out. Use the supplied tie-wrap and secure the lead as shown below.



## Optional Mounting Bracket

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any flat surface or on 19" rack rails.

