OTR1814_R01

yellobrik®

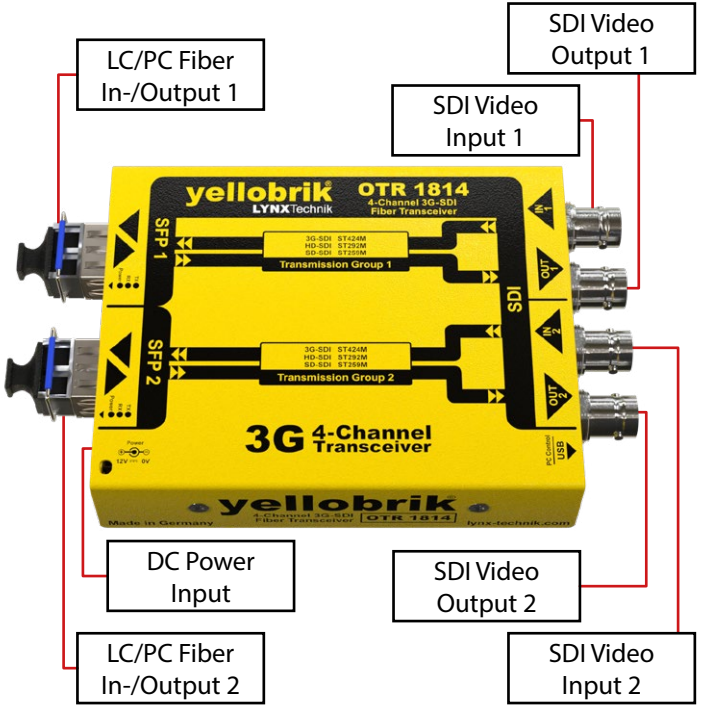
yellobrik® Quick Reference

Technical Specifications

SDI Video	2x 3G-SDI input on 75 Ohm BNC connectors 2x 3G-SDI output on 75 Ohm BNC connectors			
	SMPTE 424M, SMPTE 292M, SMPTE 259M			
	Multi-standard operation from 270Mbit/s to 3Gbit/s			
	Multirate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s			
	Automatic cable EQ	270Mbit/s	1.5Gbit/s	3Gbit/s
		250m	220m	150m
			Belden 1694A	
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) with non-CWDM 40km (25 miles) & 80km (50 miles) with CWDM SFPs		
	TX & RX active LEDs on side of module			
Power	+12V DC @ 2.4W 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 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)			
Model #	OTR 1814	4250479329652		
	OTR 1814 CW	4250481229933		
	OTR 1814 MM	4250481329947		
Includes	Module, Power Supply, 2x TR SFPs (only non-CWDM version)			

OTR 1814

4-Channel 3G-SDI Fiber Transceiver



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Module laser is active as soon as power is connected, **regardless of LED indication**

Connections

The SDI video inputs and outputs are connected to the 75 Ohm 3G-SDI BNC connections. Fiber connections use Duplex LC connectors as shown on the module.

Use the included dust plug to protect the optical connection from dust.

Operation

The OTR 1814 uses two duplex transceiver SFPs, each providing independent fiber transmitter and receiver. Different SDI video formats and standards (270M, 1.5G, 3G) can be transmitted and received.

Operation is fully automatic. The input SDI video format is automatically detected, reclocked and then transmitted over the fiber optic TX connection. For reception, the optical signal is automatically detected, reclocked and provided on the SDI output connection. The module supports hot swapping and hot plugging.

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 Signal Sent (Laser Active)

RX LED

Green	Valid Signal Received
Green/Red (alternating)	Input Format Incompatible
Off	No Valid Signal Detected

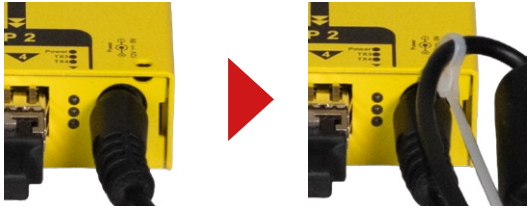
Power

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 1814 has a maximum power consumption of 2.4W (excluding SFPs).

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 mount holds up to 14 yellobrik modules and provides power redundancy for all installed devices.