

Technical Specifications

SDI Video	2x 3G-SDI inputs on 75 Ohm BNC connector 2x 3G-SDI outputs on 75 Ohm BNC connector SMPTE 424M, SMPTE 292M, SMPTE 259M Multi-standard operation from 270Mbit/s to 3Gbit/s Automatic cable EQ: 250m @ 270Mbit/s, 220m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable)
Fiber	2x Fiber inputs, 2x Fiber outputs 2x Duplex LC/PC connectors Single-mode Standard 1310nm or CWDM and Multi-mode SMPTE 297M - 2006 Side-mounted TX/RX activity LEDs
Power	+12V DC @ 2.4W excl. SFPs - (supports 7 - 24V DC input range)
Physical	Size: 140mm x 83.8mm x 22mm (5.51" x 3.29" x 0.86") incl. connectors Weight: 168g/6oz excl. SFPs, 268g/9.5oz incl. SFPs
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OTR 1814 LC	Single	Standard	1310nm	Yes
OTR 1814 MM	Multi	SR	850nm	Yes
OTR 1814 CW	Single	CWDM	1270 - 1610nm	No



WARNING
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LASER RADIATION

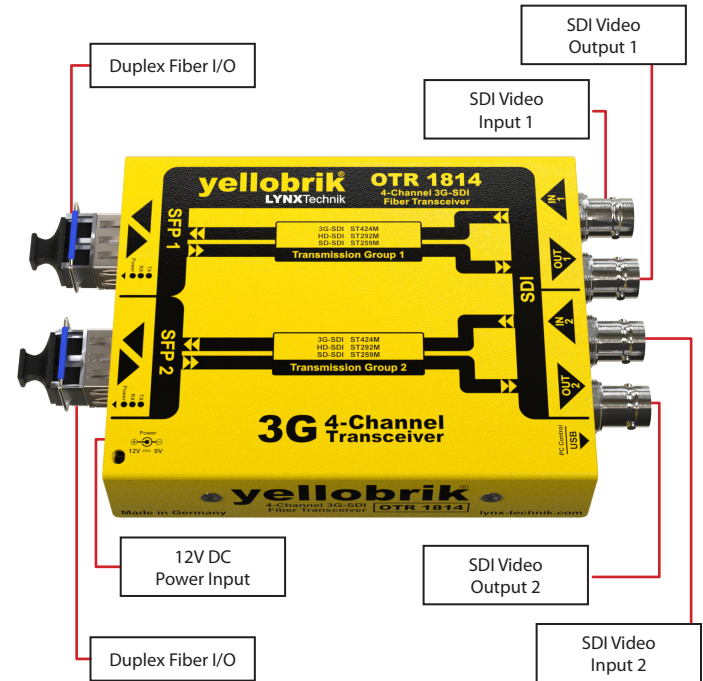
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OTR 1814

4-Channel 3G-SDI to Fiber Transceiver



The OTR 1814 is a compact 4-Channel fiber transceiver combining two independent transmitters and two independent receivers in a single unit. It supports uncompressed 3G-SDI signals up to 1080p60fps, with automatic detection and re-clocking of 3G, HD, and SD-SDI inputs.

Connections

The SDI inputs and outputs are connected to the 75 Ohm BNC connections. The fiber interface uses LC duplex connections with dense or coarse wavelengths. 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.

Operation

The OTR 1814 combines two independent fiber transmitters and receivers in a single package. Different SDI video formats and standards (3G, 1.5G and 270M) can be transmitted and received on each channel. For transmission, SDI video formats are automatically detected, relocked and then transmitted over the fiber optic TX connections. For reception, the optical SDI video input signals on the RX connections are automatically detected, relocked and provided on the SDI output connections. Data transmission and reception activity is indicated by the TX and RX LEDs on the side of the module.

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 1814 LC Single-mode Standard 1310nm: up to 10km (6.2 miles)
- OTR 1814 MM Multi-mode 850nm: up to 300m (1000 feet)
- OTR 1814 CW Single-mode CWDM: up to 40/80km (25/50 miles)

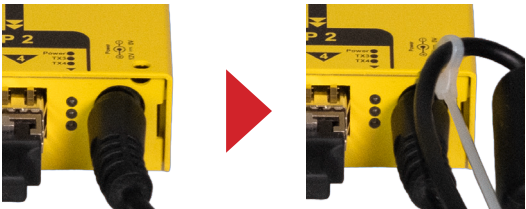
Power

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 1814 has a power consumption of 2.4W (excluding 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.

