OBD1814_R01

yellobrik®

yellobrik® Quick Reference

Technical Specifications

SDI Video	2x 3G-SDI inputs on 75 Ohm BNC connector				
	SMPTE 424M, SMPTE 292M, SMPTE 259M				
	Multi-standard operation from 270Mbit/s to 3Gbit/s				
	Multi-rate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s				
	Electrical Return Loss:		to 270MHz >10dB	to 1.5GHz >7dB	to 3GHz >10dB
	Automatic cable EQ:		270Mbit/s	1.5Gbit/s	3Gbit/s
			250m	220m	150m
			Belden 1694A		
Fiber Optics	2 x Simplex Transceiver fiber connection (LC/PC Connection)				
	SMPTE 297-2006				
	Wavelength:	Type A	TX: 1310nm / RX: 1550nm (WDM)		
		Type B	TX: 1550nm / RX: 1310nm (WDM)		
	Optical power:	Type A / B	-8dBm to -3dBm		
	RX Sensitivity	Type A / B	-16dBm @270Mbit/s - 3Gbit/s		
	TX & RX active LED on side of module				
	Max. distance*		10km (6.2 miles) @ 3Gbit/s		
Power	+12V DC @ 2.4W excl. SFPs - (supports 7 - 24V DC input range)				
	Power LED on side of module				
Physical (per module)	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 #	OBD 1814		EAN# 425048082989		
Includes	2x Modules, 2x SFPs per Module, 2x Power Supplies				

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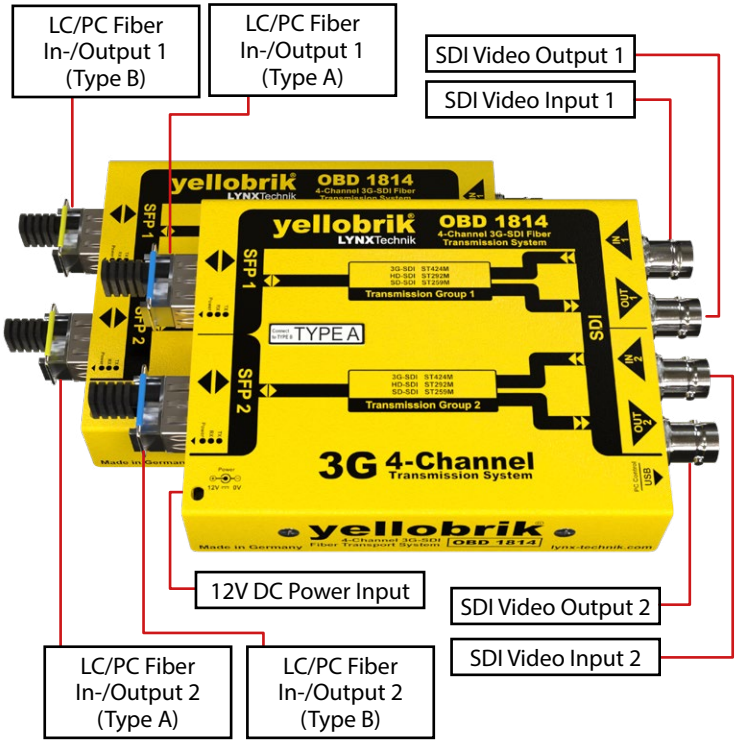
OBD 1814

4-Channel 3G-SDI Fiber Transmission System



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

Connections

SDI video inputs connect to the 75 Ω BNC connectors. Fiber connections use LC connectors, as shown on the module.

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

Operation

The OBD 1814 supports all SDI video formats from 270Mbit/s to 3Gbit/s. It does not support analog video formats. The TX LEDs indicate data transmission activity on the side of the module. The module has four independent 3G-SDI channels and uses two color coded transceiver SFP pairs to match the sender and receiver wavelengths.

Operation is fully automatic. The video input rates are automatically detected, reclocked and provided on the Fiber outputs. No user settings are provided for this module. 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

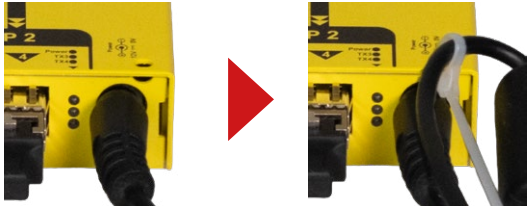
Power

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 OBD 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.