OBD1414_R01

yellobrik®

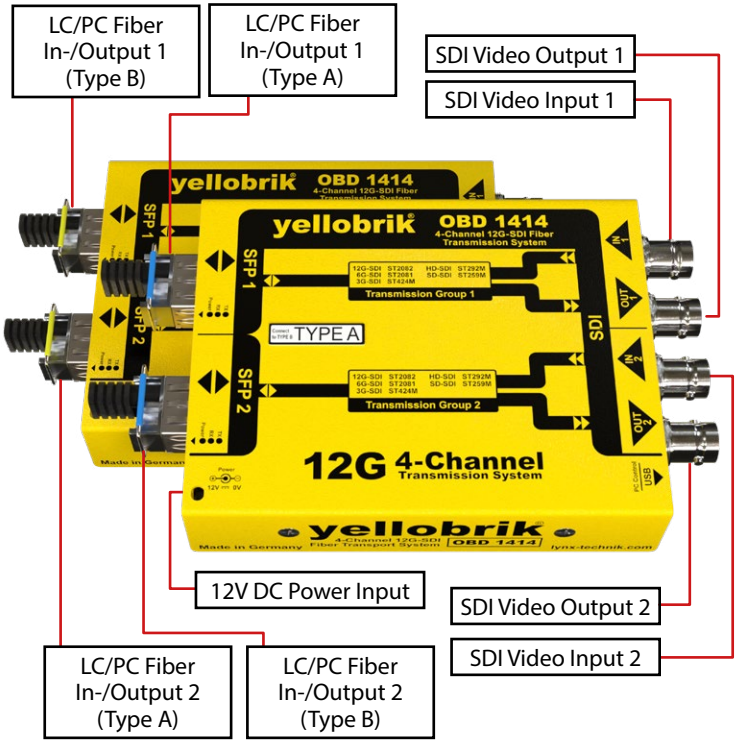
yellobrik® Quick Reference

Technical Specifications

SDI Video	2x 12G-SDI inputs on 75 Ohm BNC connector				
	2x 12G-SDI outputs on 75 Ohm BNC connector				
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M				
	Multi-standard operation from 270Mbit/s to 12Gbit/s				
	Multi-rate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s - 6Gbit/s - 12Gbit/s				
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic cable EQ:	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		220m	150m	90m	80m
		Belden 1694A		Belden 4794R cable	
Fiber Optics	2 x Simplex Transceiver fiber connection (LC/PC Connection)				
	SMPTE 297-2006				
	Wavelength:	Type A	TX: 1270nm / RX: 1330nm (WDM)		
		Type B	TX: 1330nm / RX: 1270nm (WDM)		
	Optical power:	Type A / B	-3dBm to +3dBm		
	RX Sensitivity	Type A / B	-14dBm @1.5Gbit/s		
			-10dBm @12Gbit/s		
	TX & RX active LED on side of module				
	Max. distance*	max. 10km (6.2 miles) @ 12Gbit/s			
Power	+12V DC @ 3.4W 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 1414	EAN# 425048072988			
Includes	2x Modules, 2x SFPs per Module, 2x Power Supplies				

OBD 1414

4-Channel 12G-SDI Fiber Transmitter



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

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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 1414 supports all SDI video formats from 270Mbit/s to 12Gbit/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 12G-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

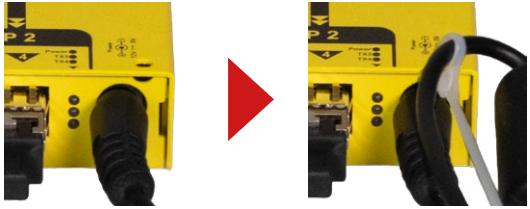
Power

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 1414 has a maximum power consumption of 3.4W (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.