

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 Automatic cable EQ: 220m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable), 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)
Fiber	2x Fiber inputs, 2x Fiber outputs 2x Simplex Transceiver SFPs with LC/PC connectors Single-mode 1310nm or CWDM SMPTE 297M - 2006 Side-mounted TX/RX activity LEDs
Power	+12V DC @ 3.4W 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	SFPs Included
OBD 1414	Single	WDM	1270 & 1330nm	Yes



WARNING
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LASER RADIATION

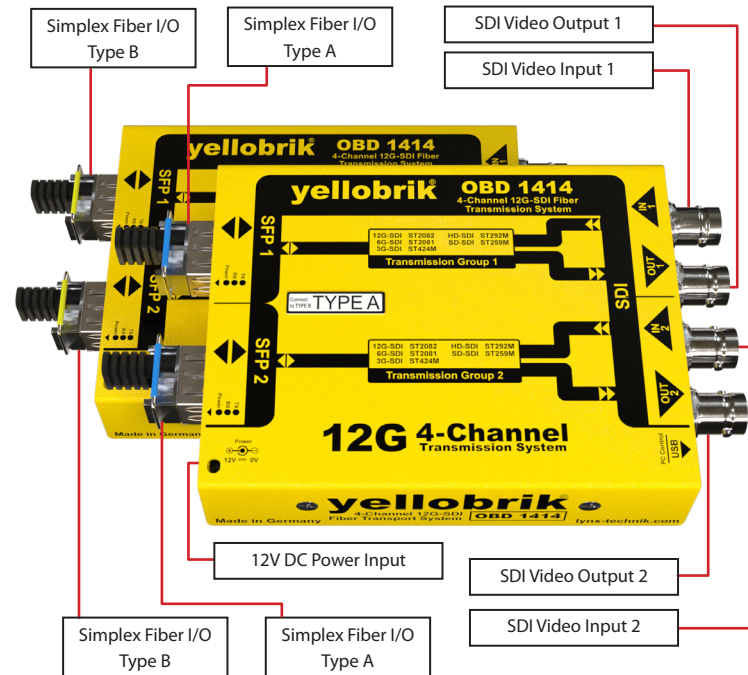
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OBD 1414

4-Channel 12G-SDI to Fiber Transceiver



The OBD 1414 system is a pair of two simplex fiber transceivers for distributing uncompressed broadcast video. Supplied as Type A and Type B modules, it uses two bidirectional single-fiber links. Each module provides two SDI inputs and outputs and auto-detects/re-clocks SDI sources from 270 Mbit/s to 12 Gbit/s.

Connections

The SDI inputs and outputs are connected to the 75 Ohm BNC connections. Fiber connections use bidirectional simplex LC connectors, as shown on the module.

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. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

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 Input Signal Detected, No Signal Transmitted (Laser Active)
RX LED		
	Green	Valid Signal Received
	Green/Red	Incompatible Input Signal
	Off	No Signal Detected

Distances

OBD 1414 closed loop WDM up to 10km (6.2 miles)

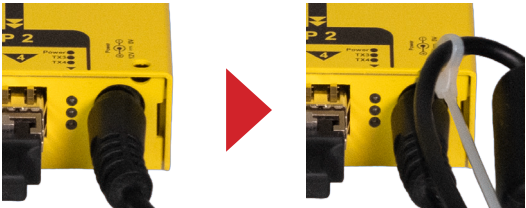
Power

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 OBD 1414 has a power consumption of 3.4W (excluding SFP).

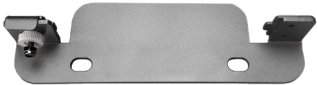
Power Lead Strain Relief

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.

