Technical Specifications

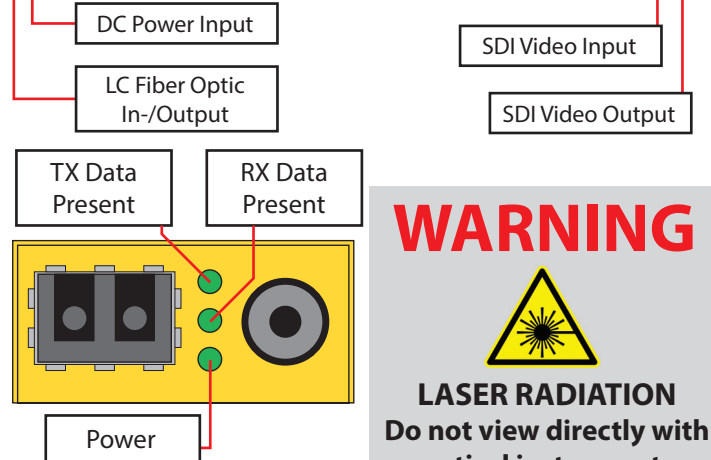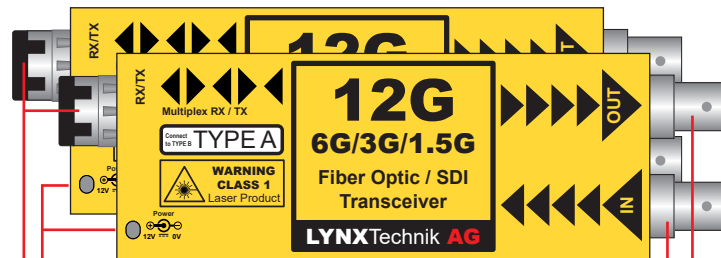|	
SDI Video	1 x SDI video input on 75 Ohm BNC connector
	1 x SDI video output on 75 Ohm BNC connector
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
	Multi-standard operation from 270Mbit/s to 12Gbit/s
	Return Loss: > 15dB up to 1.5GHz ; > 10dB up to 3GHz > 7dB up to 6GHz ; >4dB up to 12GHz
	Automatic cable EQ 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable) 90m @ 6Gbit/s, 80m @ 12 Gbit/s (Belden 4794A cable)
Fiber Optic	1 x Bidirectional fiber connection (LC/PC Connection)
	SMPTE 2082, SMPTE 2081, SMPTE 424M, and SMPTE 292M
	Type A: OH-BD-12G-1270-LC TX: 1270nm | Optical Power: -3dBm to +3dBm | Max. 10km RX: 1330nm | Sensitivity : -14dBm @1.5G to -10dBm @12G
	Type B: OH-BD-12G-1330-LC TX: 1330nm| Optical Power: -3dBm to +3dBm | Max. 10km RX: 1270nm | Sensitivity : -14dBm @1.5G to -10dBm @12G
	TX and RX active LEDs on side of module
Power	+12V DC @ 1.9W nominal - (power supply included) (supports 7 - 24V DC input range) Power LED on side of module

We are constantly adding additional yellobrik modules.
Please visit our website for the latest product updates.

www.lynx-technik.com

LYNXTechnik AG® | Broadcast Television Equipment

OBD 1410
12G Bidirectional SDI/Fiber Transceiver

DC Power Input

LC Fiber Optic In-/Output

SDI Video Input

SDI Video Output

TX Data Present

RX Data Present

Power

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

WARNING

**LASER RADIATION
Do not view directly with optical instruments**

CLASS 1M LASER PRODUCT

Connections

The SDI video in- and outputs are connected to the corresponding 75 Ohm BNC connections provided. The fiber connection is made to the LC connector as indicated on the module. An example of an LC connector shown below.

Note: The module is designed for use with SMF (Singlemode) fiber cable.

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

Operation

The OBD 1410 supports any SDI video signal from 270Mbit/s to 12Gbit/s. The modules are supplied as pairs ("Type A" and "Type B" respectively) and must be used as a pair. This is a closed WDM application using 1270nm or 1330nm wavelengths. Data send and receive activity is indicated by the LEDs located on the side of the module.

Operation is fully automatic. The fiber input video rate is automatically detected, reclocked and provided on the BNC output connector. No user settings are provided for this module. The module supports hot swapping and hot plugging of connections.

Note: The modules should be exclusively used in point to point applications and never be used in a multiplexed CWDM system **(Even if CWDM ports for 1270nm or 1330 nm are available)**

Power

The module requires a clean 12V DC (7-24V DC) power source. An LED is provided to confirm power is connected. A 12V DC power supply is included with the module. If you are applying your own power source, please provide a clean, 7-24V DC power source. Power consumption information can be found in the technical specifications table.

Power Lead Strain Relief

The modules have a small hole in the case located above the power connection to prevent the power lead being accidentally pulled out. Use the supplied tie-wrap and secure the lead as shown below.
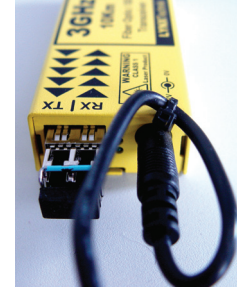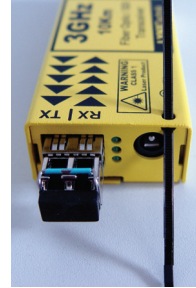
Optional Mounting Brackets

The optional RFR 1001 mounting brackets can be used to permanently mount the modules on any flat surface or on 19" rack rails.

The optional RFR 1000-1 rack mount can be used to permanently mount up to 14 yellobrik modules. In addition, the RFR 1000-1 can provide full power redundancy for all mounted yellobriks.

Note: *OBD 1410 is identical in terms of mounting and securing*