Technical Specifications

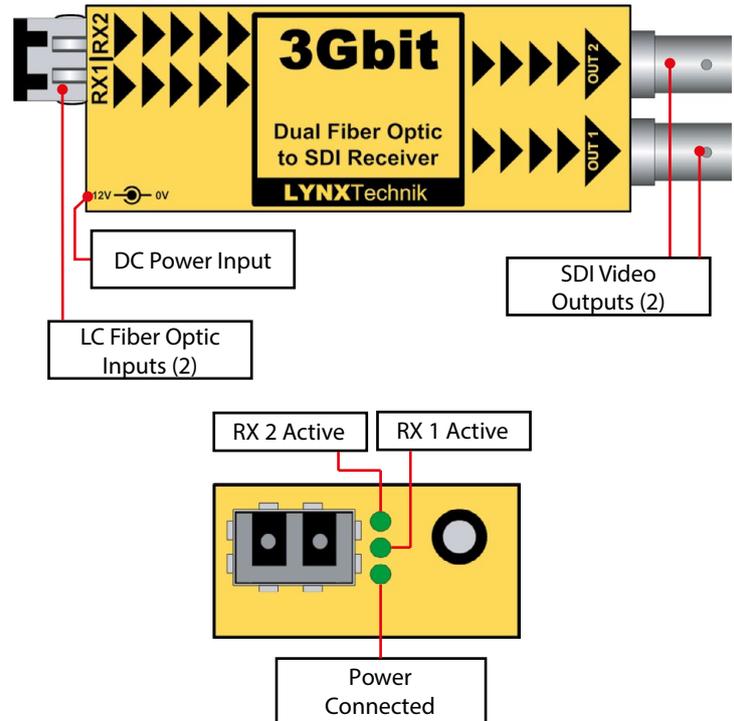|	
Optical Input	2 x fiber optic Inputs Duplex (Singlemode) using LC/PC Connectors
	SMPTE 297M - 2006
	Hot pluggable
	Input range (wavelength) 1260nm to 1620nm
	RX sensitivity -1dBm to -16dBm
	RX active LEDs on side of module
	SMF (Singlemode) fiber
SDI Outputs	2 x SDI video on 75 Ohm BNC connector
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Return Loss: > 15dB to 1.5GHz and > 10dB up to 3GHz
Power	+12VDC power supply (included) (supports external power input from 9 - 14 VDC) Power LED on side of module
Size	105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")
Model #	ORR 1802
Includes	Module, 12V DC power supply and wall mounting brackets (fiber optic cable not included)
	SFP Included

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

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ORR 1802
Dual SD/HD/3G Fiber to SDI Receiver

DC Power Input

LC Fiber Optic Inputs (2)

SDI Video Outputs (2)

RX 2 Active

RX 1 Active

Power Connected

Connections

The SDI video outputs are connected to the 75 Ohm BNC connections (up to 3Gbit). The fiber input connection is LC Duplex SMF (Singlemode). An example of the LC connector shown below (fiber Optic cable and LC connectors are not supplied)

*Note
The module is designed for use with SMF (Singlemode) fiber cable. While it is possible to use Multimode cable, performance (distance) is greatly degraded and not guaranteed.

Operation

The module has two identical (and fully independent) channels. Operation is fully automatic. The Fiber Input video rates are automatically detected, reclocked and provided on the BNC output connectors.

The ORR 1802 supports any SDI video signal from 270Mbit/s to 3Gbit/s. The fiber Input wavelength range is 1270nm - 1610nm and is suitable for both basic fiber (1310nm) and CWDM applications. Data reception activity is indicated by the RX LEDs on the side of the module.

Note: If RX LED is OFF this indicates no signal is present, signal to weak or is a non a valid input.

The module supports hot swapping and hot plugging of connections.

No user settings are provided for this module.

Power

The module requires a 12V DC power input and a LED is provided to confirm power is connected. A power supply is provided, but if applying your own power, please provide a clean 12V DC power source. Module power consumption is approx 250mA (2.8VA).

Power Lead Strain Relief

The module (different module shown here) has 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 Solutions

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any 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.

Another module type is shown for illustration purpose only. The principle is the same for the ORR 1802.