ORX1400_R02

Technical Specifications

Optical Input	1 x Fiber optic input (LC/PC Connection)
	SMPTE 297M - 2006
	Input range (wavelength) 1260nm to 1620nm
	RX sensitivity -2dBm to -10dBm
	RX active LED on side of module
SDI Outputs	2 x SDI video on 75 Ohm BNC connector
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M
	Multi-standard operation from 1.5Gbit/s to 12Gbit/s
Power	+12V DC @ 2W nominal - (power supply included) (supports 7 - 24V DC input range) Power LED on side of module

ORX 1400
12G Fiber Optic to SDI Receiver
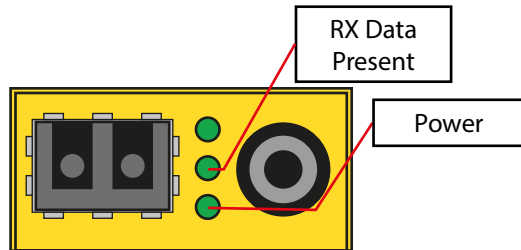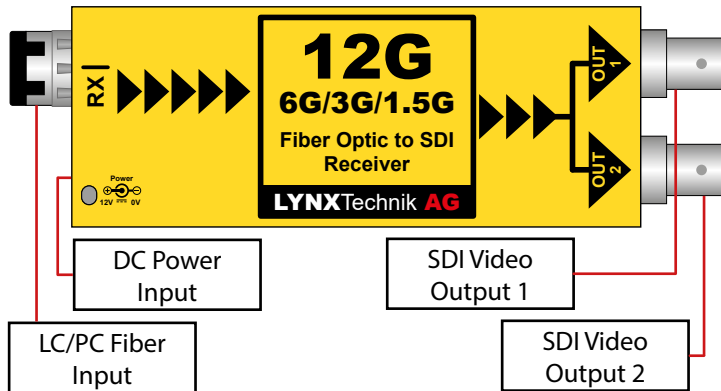
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Connections

The SDI outputs are connected to the corresponding 75 Ohm BNC connections provided. The fiber connection is made to the fiber SFP sub module as indicated on the module.
An example of a 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 ORX 1400 supports all SDI video formats from 1.5Gbit/s to 12Gbit/s. Data reception activity is indicated by the RX LED on the side of the module. The module has two identical output channels.

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

Note: If the RX LED is OFF this indicates that no signal is present, the signal is too weak or is not a valid input.

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 module has a small hole in the case which is located above the power connection. This prevents 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.
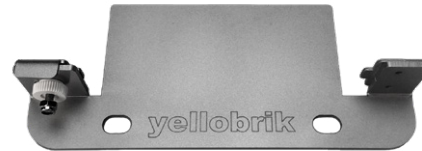
The optional RFR 1000-1 rack mount can be used to permanently mount up to 14 yellobrik modules. In addition, the RFR 1000-1 can provide full power redundancy for all mounted yellobriks.

Note: The ORX 1400 is identical in terms of mounting and securing.