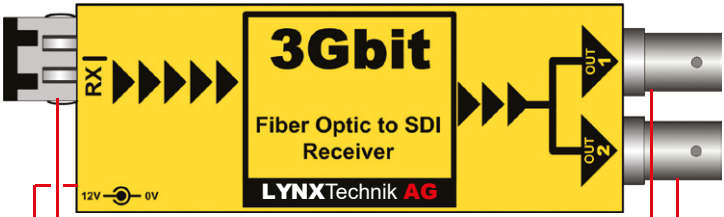
yellobrik® Quick Reference

ORX 1802 (LC,ST,SC,MM)

3Gbit Fiber Optic to SDI Receiver



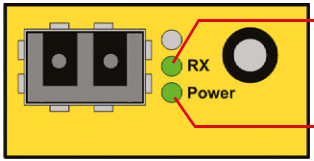
Fiber Input - Four options are available

LC	ST	SC	LC
Singlemode	Singlemode	Singlemode	Multimode

DC Power Input

SDI Video Output 1

SDI Video Output 2



Receiving Data

Power Connected

WARNING

Class 1M Laser Product

Laser Radiation

Do not view directly with optical instruments

Connections

The SDI video 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.

Four versions of the module are available, the only dierence is the SFP sub module installed into the basic module.

ORX 1802-2 LC - Singlemode LC ber connection
ORX 1802 ST - Singlemode ST ber connection
ORX 1802 SC - Singlemode SC ber connection
ORX 1802 MM - Multimode LC ber connection

LC Singlemode | ST Singlemode | SC Singlemode | LC Multimode

Four versions of the module are available, the only difference is the SFP sub module installed into the basic module

The module fiber connection is supplied with a rubber plug installed, this is to prevent dust contamination. Please retain the plug and use if the cable is ever disconnected from the module.

Operation

Operation of the ORX 1802 is fully automatic. The SDI video format is automatically detected, reclocked and provided on two SDI output connections. The module supports all SDI video standards as well as DVB/ASI.

The ORX 1802 supports hot swapping and hot plugging of connections.
No user settings are provided for this module.

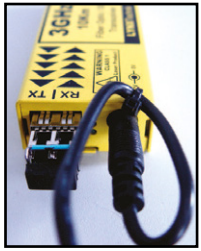
Power

The module requires a 12V DC power input and the LED confirms when power is connected. A power supply is provided, however if you use your own power supply, please provide a clean power source between 7 and 24VDC.

The OTX 1410 has a power consumption of approximately 2.2W nominal.

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

OTX1802_R04

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Technical Specifications

Optical Input Singlemode	1 x fiber optic Input LC, ST or SC connection
	SMPTE 297M - 2006
	Input range (wavelength) 1260nm to 1620nm
	RX sensitivity -3dBm to -19dBm
Optical Input Multimode	1 x Fiber Optic Input LC Connection
	SMPTE 297M - 2006
	Input range (wavelength) 780nm to 880nm
	RX sensitivity 0dBm to -15dBm
SDI Output	2 x SDI video on 75 Ohm BNC connectors
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Return Loss: >15dB from 5MHz to 1.5GHz >10dB from 1.5GHz to 3GHz
Power	+12VDC power supply (included) Supports external power input from 7 - 16 VDC Power LED on side of module. Power Consumption 1.3W

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