yellobrik®

ORX 1702-1

LYNX | Centraal™ yelloGUI

Fiber to Analog Sync/Video Receiver

- Supports analog black burst, bi-level and tri-level sync signals
- Supports NTSC and PAL composite video
- Two BNC Outputs
- Broadcast quality performance
- Versions for LC, ST or SC fiber connections
- Standard 1310nm, CWDM and Multi-mode compatibility
- Supports hot swapping and hot plugging
- Compatible with yelloGUI for advanced settings



LC singlemode | **ST** singlemode | **SC** singlemode | **LC** multimode

The ORX 1702-1 can be equipped with a range of SFP modules to support different optical transmission standards and connector types, including Standard 1310 nm with LC, ST, or SC connectors; Standard 1310 nm and CWDM with LC connector, available in standard and high-sensitivity versions; and multi-mode 850 nm with LC connector.

The ORX 1702-1 is a compact analog sync or NTSC/PAL composite video to fiber receiver. This device is specifically designed to combat the restrictions involved with the distribution of broadcast quality analog reference and composite video signals over long distances.

When paired with the fiber transmitter OTX 1712-2 it becomes a cost-effective optical transmission system for analog sync reference signals or NTSC/PAL composite video. This device is particularly useful for reference sync distribution between remote installations to maintain correct synchronization.

Unlike other basic analog to fiber conversion solutions, the ORX 1702-1 incorporates technology to maintain a very high degree of sync and burst phase stability during the fiber reception and analog conversion.

The module receives an optical SDI signal (including reference and metadata) and convert it to an analog signal. Therefore when the ORX 1702-1 is used with 525 or 625 SDI video sources it is possible to use it to convert the signal to an analog NTSC or PAL composite output.

The ORX 1702-1 LC is compatible with 1310 nm single-wavelength and CWDM fiber input. The ST and SC options only accept 1310 nm single-wavelength. Order the ORX 1702-1 MM for multi-mode 850 nm fiber input.

As with all yellobrik modules, it is compatible with the RFR 1200 rack frame, which provides power redundancy.



ORX 1702-1 LC

Technical Specifications

Fiber Input Singlemode	1x fiber Input LC, ST or SC connection
	SMPTE 297M - 2006
	Input range (wavelength): 1260nm to 1620nm
	RX sensitivity: -3dBm to -19dBm (-26dBm for High Sensitivity option)
	RX active LED on side of module
Fiber Input Multimode	1x fiber input LC connection
	SMPTE 297M - 2006
	Input range (wavelength) 780nm to 880nm
	RX sensitivity: 0dBm to -15dBm
	RX active LED on side of module
Analog Output	Sync = analog black burst / SDTV bi-level / HDTV tri-level Video = NTSC / PAL composite video 2 identical outputs provided 75 Ohm BNC connectors
	NTSC SMPTE 170M, PAL CCIR624 Analog tri-level sync SMPTE ST 274, ST 296 720p 50/59.94/60 1080i 50/59.94/60 1080p 23.97/24/25/29/30 1080psF 23.97/24
	Return loss: 46.5dB to 10MHz
Power	+12VDC @ 3.5W nominal - (supports 8 - 24VDC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)
Includes	Modules, 12V DC power supply

Ordering Information

Model	Mode	Type	RX Input Range	RX Sensitivity	SFP Included
ORX 1702-1 LC	Single-mode	Standard 1310 & CWDM	1260 - 1580nm	-18dBm	Yes
ORX 1702-1 ST	Single-mode	Standard 1310	1260 - 1580nm	-18dBm	Yes
ORX 1702-1 SC	Single-mode	Standard 1310	1260 - 1580nm	-18dBm	Yes
ORX 1702-1 MM	Multi-mode	SR	840 - 860nm	-15dBm	Yes
ORX 1702-1 HS	Single-mode	Standard 1310 & CWDM	1260 - 1580nm	-26dBm	Yes