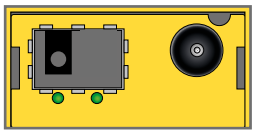
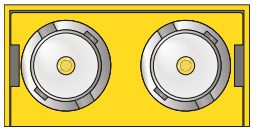
yellobrik®

OTX 1742-2

LYNX | Centraal™ ✓ yelloGUI ✓

Analog Sync / Video Fiber Transmitter (CWDM)





Features

- Supports analog black burst, bi-level, tri-level sync signals and NTSC and PAL composite video
- Passive loop analog output
- Broadcast quality performance
- Simplex (Singlemode) LC/PC fiber connection
- 18 wavelength selections (ITU-T G.694.2)
- Error free optical transmission
- Up to 40km (24.8 miles) singlemode
- Supports hot swapping and hot plugging
- yelloGUI and LynxCentrral compatible

Description

The OTX 1742-2 is a compact analog sync or NTSC/PAL composite video to fiber optic transmitter (CWDM compatible). 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 optic receiver ORX 1702-1 you have 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 very basic analog to fiber conversion solutions, the OTX 1742-2 incorporates technology to maintain a very high degree of sync and burst phase stability during the conversion and fiber transmission.

The module converts the NTSC/PAL video signal to an SDI signal (including reference and other relevant information) before it is converted to fiber. Therefore, when the OTX 1742-2 is used for NTSC or PAL video sources it is possible to convert the fiber signal directly to SDI if required using an SDI receiver (e.g. ORX 1802).

Technical Specifications

Analog Input	Sync: analog black burst / SDTV bi-level / HDTV tri-level Video: NTSC / PAL Composite video 1 x passive loop output (terminate if not used) 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
	Multi-standard operation, auto-detect
	Return loss: 31dB to 10MHz
Fiber Out Singlemode	1x Fiber output Simplex (singlemode) LC/PC connection
	SMPTE 297M - 2006
	18 Wavelength selections per ITU-T G.694.2 (see table)
	TX active LED on side of module
	Max. distance approx. 40km (24.8 miles)
Power	+12V DC @ 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 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OTX 1742-2 - (EAN# 4250479320420)
Includes	Module, 12V DC power supply

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

yellobrik®

OTX 1742-2

Fiber I/O Options:

A wide range of SFP modules are available for this yellobrik. The selection listed here shows the most likely SFP modules for most typical setups.

More SFP modules are available. To find the perfect solution for your setup visit lynx-technik.com for more information or contact us.

CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelength	Power	Option #	EAN / UPC
1270nm	-1dBm	OH-TX-4-1270-LC	4250479312715
1290nm,		OH-TX-4-1290-LC	4250479312913
1310nm,		OH-TX-4-1310-LC	4250479313118
1330nm,		OH-TX-4-1330-LC	4250479313316
1350nm		OH-TX-4-1350-LC	4250479313514
1370nm		OH-TX-4-1370-LC	4250479313712
1390nm		OH-TX-4-1390-LC	4250479313910
1410nm		OH-TX-4-1410-LC	4250479314115
1430nm		OH-TX-4-1430-LC	4250479314313

Wavelength	Power	Option #	EAN / UPC
1450nm	-1dBm	OH-TX-4-1450-LC	4250479314511
1470nm		OH-TX-4-1470-LC	4250479314719
1490nm		OH-TX-4-1490-LC	4250479314917
1510nm		OH-TX-4-1510-LC	4250479315112
1530nm		OH-TX-4-1530-LC	4250479315310
1550nm		OH-TX-4-1550-LC	4250479315518
1570nm		OH-TX-4-1570-LC	4250479315716
1590nm		OH-TX-4-1590-LC	4250479315914
1610nm		OH-TX-4-1610-LC	4250479316119

Optional Accessories

Rack Frames

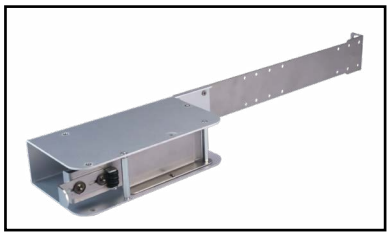
This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.

RFR 1200: yellobrik Rack Frame

RPS A100: 100W Power supply



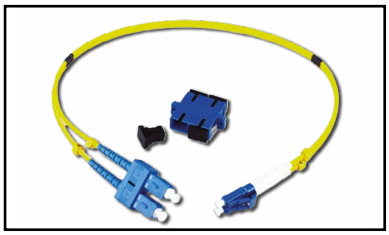
RXT 1001: Power Supply Holder

Fiber Adapter Cables

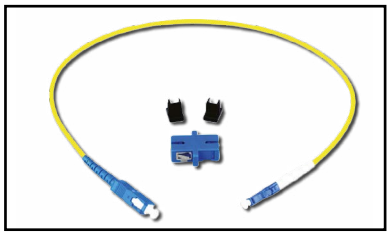
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

To still allow the necessary flexibility in a professional setting we offer patch cables to convert LC to ST or SC fiber connections. These patch cables' insertion less and return loss are manually checked for each individual cable to allow for maximum precision when calculating the optical budget

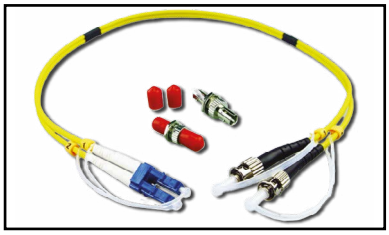
Besides the selection here we offer LC/FC and LC/LC patch cables.



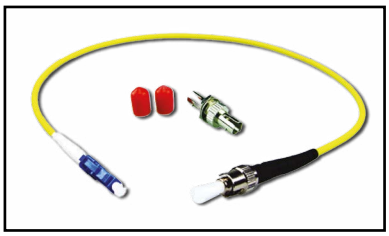
LC/SC Dup: LC/SC Duplex adapter cable



LC/SC Sim: LC/SC Simplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/ST Sim: LC/ST Simplex adapter cable