

Analog Sync / Video to Fiber Transmitter

LYNX | Centraal™

yelloGUI



Features

- Analog Bi-level and Tri-level sync signals
- NTSC and PAL composite video
- Passive Analog loop output
- Error free optical transmission
- Up to 10km (6.2 miles) Single-mode
- Up to 300m (1000 feet) Multi-mode
- Up to 40km/80km (25/50 miles) Single-mode CWDM
- 18 CWDM options as per ITU-T G.694.2
- Hot swapping and hot plugging

Description

The OTX 1712-2 analog video to fiber transmitter is a compact solution for converting analog sync or NTSC/PAL composite video signals to fiber. When paired with the ORX 1702-1 fiber receiver, it forms a cost-effective optical system for transporting analog sync or composite video.

This yellobrik module incorporates advanced processing to ensure a high level of sync and color burst phase stability throughout conversion and transmission.

The OTX 1712-2 converts NTSC/PAL video into SDI (including embedded reference information) prior to optical transmission. This allows the fiber signal to be directly converted back to SDI using a compatible receiver such as the ORX 1802 SDI fiber receiver, or to analog sync using the ORX 1702-1.

Technical Specifications

Analog Input	Sync = analog black burst / SDTV bi-level / HDTV tri-level Video = NTSC / PAL composite video 1x 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	1x SDI Transmitter SFP Simplex LC, ST or SC connector Single-mode, Multi-mode or CWDM SMPTE 297M - 2006 Side-mounted TX activity LED TX active LED on side of module
Power	+12VDC @ 3.4W nominal - (supports 8 - 24V DC input)
Physical	Size including connectors: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	TX Power	RX Sensitivity	Distance (up to)	SFP Included
OTX 1712-2 LC	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1712-2 SC	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1712-2 ST	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1712-2 MM	Multi-mode	Short Range	850nm	-4dBm	N/A	300m, 1000 ft	Yes
OTX 1712-2 CW	Single-mode	Coarse	1270 - 1610nm	-1dBm	N/A	40/80 km, 25/50 mi	No

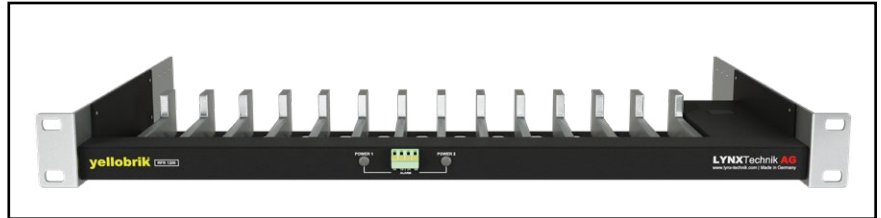
Optional Accessories

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.

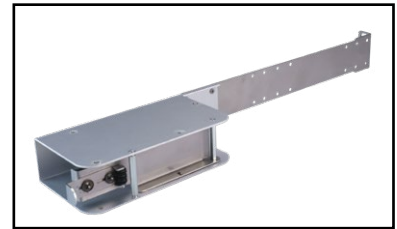
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



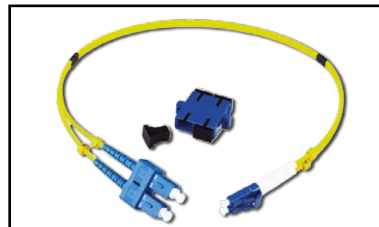
RXT 1001: Power Supply Holder

Fiber Adapter Cables

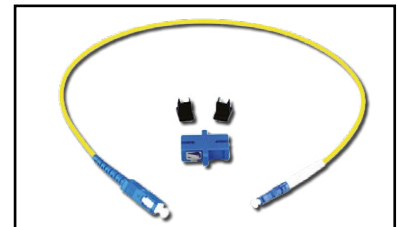
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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 loss and return loss are manually checked for each individual cable to allow for maximum precision when calculating the optical budget

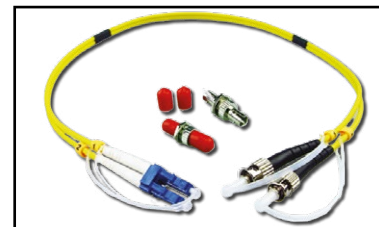
Besides the selection here we offer LC/FC and LC/LC patch cables.



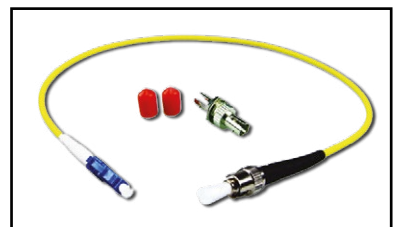
LC/SC Dup: LC/SC Duplex adapter cable



LC/SC Sim: LC/SC Simplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/ST Sim: LC/ST Simplex adapter cable

Power Adapter Options

The power requirements of this yellobrik allow for the usage of P-Tap or XLR connection based power sources.

Note: This does not replace the included power supply.



P-TAP 1000
Use with a standard battery P-TAP power source.



XLR 1000
Use with a standard 4 pin XLR camera battery power source.