yellobrik®

OTT 1412

LYNX | Centraal™ yelloGUI

2-Channel 12G-SDI to Fiber Transmitter

Features

- Dual Transmitter
- Support 12G/6G/3G/1.5G/SD-SDI Standards
- Auto Reclocking
- Error free optical transmission
- 18 CWDM SFP selections (as per ITU-T G.694.2)
- Up to 10km (6,2 miles) @ 12Gbit/s
- Duplex LC/PC Single-mode fiber connections
- Hot swapping and hot plugging

Description

The OTT 1412 is a compact 2-Channel 12G-SDI to fiber transmitter designed to distribute uncompressed, broadcast-quality video over long distances.

When paired with a 2-Channel or 4-Channel fiber receiver (e.g. yellobrik ORR 1402/ORR 1404), it forms a cost-effective optical transmission system for two 12G-SDI signals up to 4K 60fps 12-bit.

The OTT 1412 has two completely independent channels. Each will auto-detect and re-clock any 12G/6G/3G/1.5G/SD-SDI source prior to optical transmission. The module is fully compatible with 3G Level A and Level B formats.

It is compatible with single-mode SFP dual transmitters for both Single and coarse wavelength applications.

Technical Specifications

SDI Video	2 x SDI video on 75 Ohm BNC connector (two independent channels)				
	SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M				
	Multi-standard operation from 270Mbit/s to 12Gbit/s				
	Multi-rate reclocking: 270Mbit/s to 12Gbit/s				
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic cable EQ:	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		190m	140m	90m	80m
		Belden 1694A cable		Belden 4794R cable	
Fiber	1x 12G-SDI Dual Transmitter SFP Duplex LC connector				
	SMPTE 297M - 2006				
	Single-mode 1310nm or CWDM				
	Side-mounted TX activity LED				
Power	+12V DC @ 2.5W nominal - (supports 7 - 24V DC input range)				
	Power LED on side of module				
Physical	Size (incl.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
OTT 1412 LC	Single-mode	Single	1310nm	-2dBm	N/A	10 km, 6.2 mi	Yes
OTT 1412 CW	Single-mode	Coarse	1270 - 1610nm	+1dBm	N/A	10 km, 6.2 mi	No

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Optional Accessories

Rack Frames

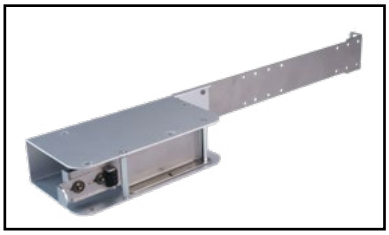
This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

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



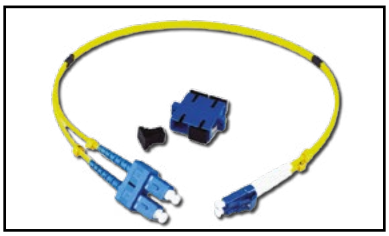
RXT 1001: Power Supply Holder

Fiber Adapter Cables

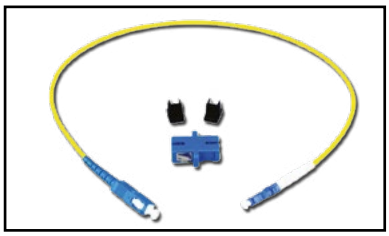
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

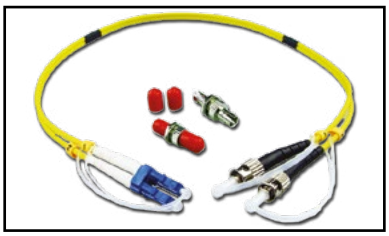
Besides the selection here we offer LC/FC and LC/LC patch cables.



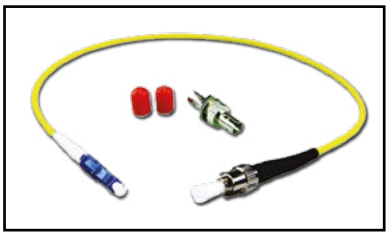
LC/SC Dup: LC/SC Duplex adapter cable



LC/SC Sim: LC/SC Simplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/ST Sim: LC/ST Simplex adapter cable

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.