

Dual Channel 3G-SDI to Fiber Transmitter

LYNX | Centraal™

yelloGUI



Features

- Dual Transmitter
- Support 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 10/40/80km (6/25/50 miles) @ 3Gbit/s
- Duplex LC/PC Single-mode fiber connections
- Hot swapping and hot plugging

Description

The OTT 1812-1 is a compact dual channel SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

When paired with the dual-channel fiber to SDI receiver (e.g. yellobrik ORR 1802-2) you have a very cost-effective dual channel optical transmitter/receiver system for signals up to 3G-SDI (1080p60) while preserving full uncompressed quality.

The OTT 1812-1 has two independent channels and each will auto-detect, and re-clock any 270Mbit/s, 1.5Gbit/s, and 3Gbit/s SDI source before optical transmission. The module is fully compatible with 3G Level A and Level B formats.

Technical Specifications

SDI Input	2x 3G-SDI video on 75 Ohm BNC connector (two independent channels)		
	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI		
	Multi-standard operation from 270Mbit/s to 3Gbit/s		
	Multi-rate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s		
	Electrical Return Loss:	to 1.5GHz: >15dB	to 3GHz: >10dB
Automatic cable EQ:	270Mbit/s	1.5Gbit/s	3Gbit/s
	250m	190m	140m
Belden 1694A cable			
Fiber	2x Fiber outputs Duplex LC connector		
	SMPTE 297M - 2006		
	Single-mode 1310nm or CWDM		
	2x TX active LED on side of module		
Power	+12V DC @ 1.9W 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, SFP Module, AC power supply		

Ordering Information

Model	Mode	Type	TX Wavelength	TX Power	RX Sensitivity	Distance (up to)	SFP Included
OTT 1812-1 LC	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTT 1812-1 CW	Single-mode	Coarse	1270 - 1610nm	-1dBm	N/A	40/80 km, 25/50 mi	No

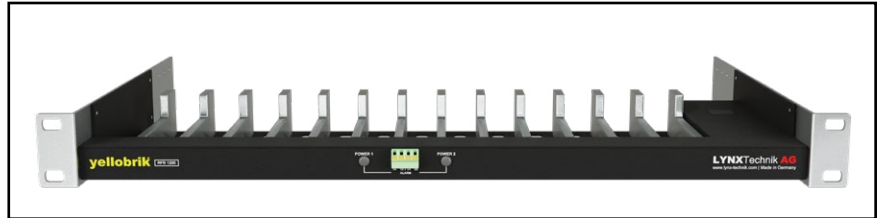
Optional Accessories

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.

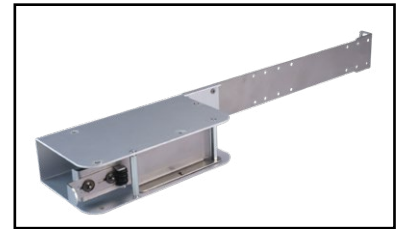
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



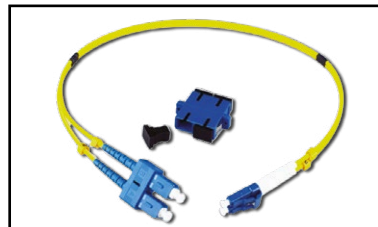
RXT 1001: Power Supply Holder

Fiber Adapter Cables

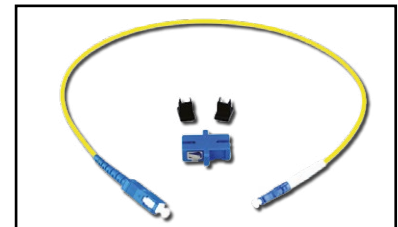
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

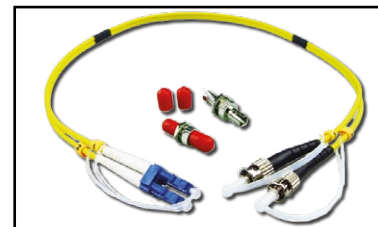
Besides the selection here we offer LC/FC and LC/LC patch cables.



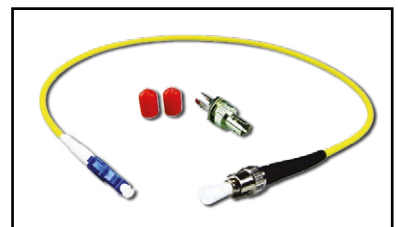
LC/SC Dup: LC/SC Duplex adapter cable



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.