

3G-SDI to Fiber Transmitter

LYNX | Centraal™

yelloGUI



Features

- Support 3G/1.5G/SD-SDI Standards
- Auto Reclocking with relocked SDI loop output
- Up to 10km (6.2 miles) @ 3Gbit/s (Single-mode)
- Up to 300m (1000 feet) @ 3Gbit/s (Multi-mode)
- Up to 40km (25 miles) @ 3Gbit/s (CWDM)
- LC, ST and SC connectors available in single-mode
- Hot swapping and hot plugging

Description

The OTX 1812 is a compact 3G-SDI to fiber transmitter designed to distribute uncompressed, broadcast-quality video over long distances. When paired with a fiber receiver (e.g. yellobrik ORX 1802), it forms a cost-effective optical transmission system for 3G-SDI signals up to 1080p60.

The OTX 1812 automatically detects and re-clocks any 3G/1.5G/SD-SDI inputs prior to optical conversion, and is fully compatible with 3G Level A and Level B formats.

1310nm single-mode, 850nm multi-mode and 18 CWDM single-mode options are available as per ITU-T G.694.2.

Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector 1x SDI output reclocked loop on 75 Ohm BNC connector			
	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	220m	150m	
Belden 1694A cable				
Optical Output	1x 3G-SDI Transmitter SFP LC/SC/ST Simplex connector			
	SMPTE 297M - 2006			
	Single-mode 1310nm, Multi-mode or CWDM			
	Side-mounted TX activity LED			
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, AC power supply, SFP depending on model			

Ordering Information

Model	Mode	Type	TX Wavelength	TX Power	RX Sensitivity	Distance (up to)	SFP Included
OTX 1812 LC	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1812 SC	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1812 ST	Single-mode	Single	1310nm	-5dBm	N/A	10 km, 6.2 mi	Yes
OTX 1812 MM	Multi-mode	Short Range	850nm	-4dBm	N/A	300m, 1000 ft	Yes
OTX 1812 CW	Single-mode	Coarse	1270 - 1610nm	-1dBm	N/A	40 km, 25 mi	No

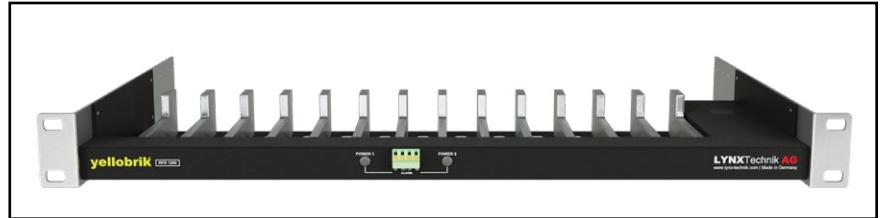
Optional Accessories

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.

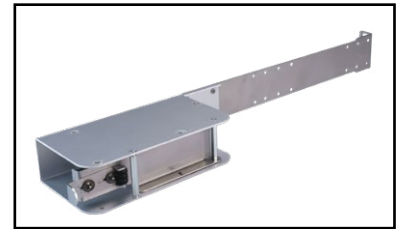
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



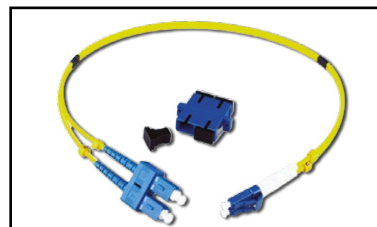
RXT 1001: Power Supply Holder

Fiber Adapter Cables

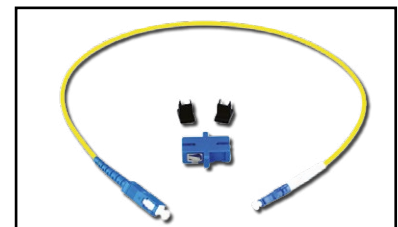
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

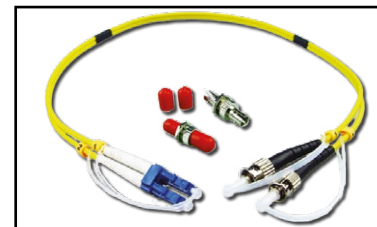
Besides the selection here we offer LC/FC and LC/LC patch cables.



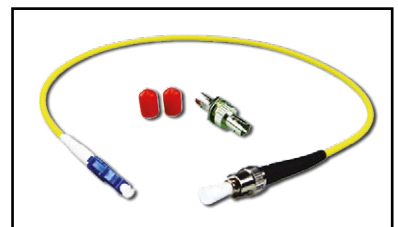
LC/SC Dup: LC/SC Duplex adapter cable



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.