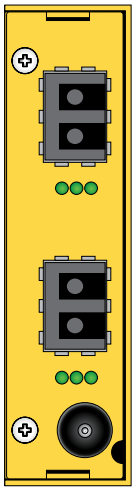
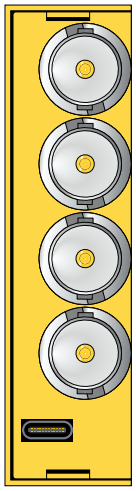
yellobrik®

OTT 1814

LYNX | Centraal™ ✓ yelloGUI ✓

4-Channel 3G-SDI to Fiber Transmitter





Features

- Quad channel
- Supports SDI video inputs up to 3G (2048 × 1080 @ 60Hz)
- 3G-SDI Level A and Level B support (all formats)
- Auto reclocking 270M, 1.5G, 3G
- Error free optical transmission
- Up to 80km* (50miles) with CWDM
- 10km* (6.2 miles) with standard SFPs
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging
- Support CWDM and non-CWDM SFPs

Description

The OTT 1814 is a compact quad channel SDI to fiber transmitter designed to optimize the distribution of uncompressed broadcast quality video signals over long distances.

When paired with the 4-channel fiber to SDI receiver (e.g. yellobrik ORR 1804) it creates a very cost-effective 4-channel optical transmitter/receiver system for signals up to 3G-SDI (2048 × 1080 @ 60Hz) while preserving full uncompressed quality.

The OTT 1814 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.

*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.

Technical Specifications

SDI Input	4x 3G-SDI video on 75 Ohm BNC connector (four independent channels)		
	SMPTE 424M, SMPTE 292M, SMPTE 259M		
	Multi-standard operation from 270Mbit/s to 3Gbit/s		
	Multi-rate reclocking: 270Mbit/s to 3Gbit/s		
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB
	Automatic cable EQ:	1.5Gbit/s	3Gbit/s
		190m	140m
		Belden 1694A cable	
Optical Output	4x fiber outputs 2x Duplex (singlemode) using LC/PC Connections		
	SMPTE 297M - 2006		
	Wavelength:	1310nm (each channel)	
	Optical power:	-5.5dBm to -0.5dBm (each channel)	
	4x TX active LED on side of module		
	Max. distance*	80km (50 miles) with CWDM 10km (6.2 miles) with standard SFPs	
Power	+12V DC @ 2.2W excl. SFPs - (supports 7 - 24V DC input range)		
	Power LED on side of module		
Physical	Size (incl.connectors)	140mm x 83.8mm x 22mm (5.51" x 3.29" x 0.86")	
	Weight	168g/6oz excl. SFPs, 268g/9.5oz incl. SFPs	
Ambient	5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing)		
Model #	OTT 1814	EAN# 4250479529755	
	OTT 1814 CW	EAN# 4250481029915	
Includes	Module, Power Supply, 2x TT SFPs (only non-CWDM version)		

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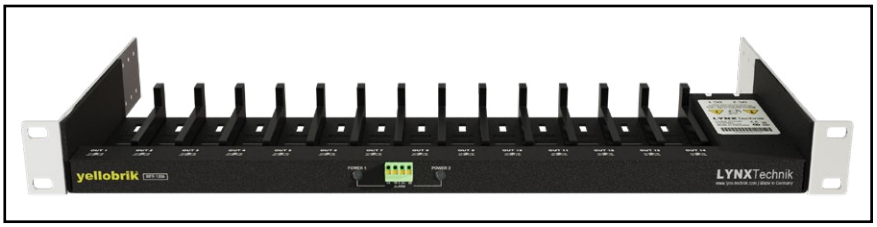
Optional Accessories

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.

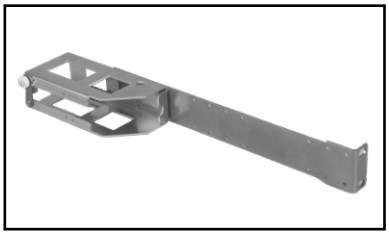
The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

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



RFR 1200: yellobrik Rack Frame

RPS A100: 100W Power supply



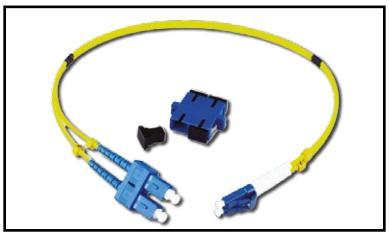
RXT A100: Power Supply Holder

Fiber Adapter Cables

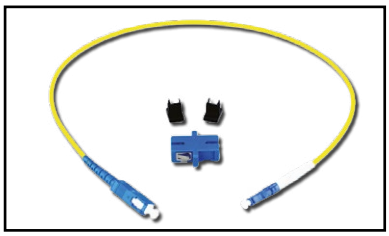
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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 indiviQuad cable to allow for maximum precision when calculating the optical budget

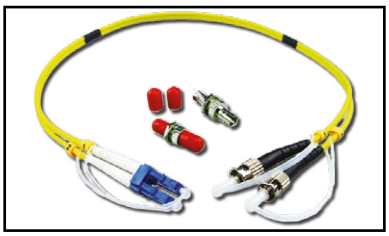
Besides the selection here we offer LC/FC and LC/LC patch cables.



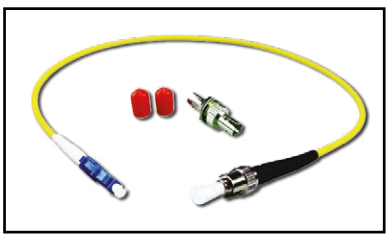
LC/SC Dup: LC/SC Duplex adapter cable



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.