yellobrik®

OTR 1810-1

LYNX | Centraal™ ✓ yelloGUI ✓

3G-SDI to Fiber Transceiver

Features

- Support 3G/1.5G/SD-SDI Standards
- Auto Reclocking
- Error free fiber connections
- Single-mode, Multi-mode and CWDM versions
- Up to 10km (6.2 miles) @ 3Gbit/s (Single-mode)
- Up to 300m (1000 feet) @ 3Gbit/s (Multi-mode)
- Up to 80km (50 miles) @ 3Gbit/s (CWDM)
- Hot swapping and hot plugging

Description

The OTR 1810-1 fiber transceiver combines an independant fiber transmitter and receiver in a single, self-contained unit. It enables reliable handling of 3G-SDI signals up to 1080p60 while preserving full, uncompressed quality.

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

This module includes a mini USB port for real-time signal presence monitoring and firmware updates.

Technical Specifications

SDI Input	1x SDI input on 75 Ohm BNC connector 1x SDI output 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	
Fiber	1x 3G-SDI Fiber Transceiver SFP Duplex LC connector			
	SMPTE 297M - 2006			
	Single-mode 1310nm, Multi-mode or CWDM			
	Side-mounted TX/RX activity LEDs			
Power	+12V DC @ 2W 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 Input Range	RX Sensitivity	Distance (up to)	SFP Included
OTR 1810-1 LC	Single-mode	Single	1310nm	-5dBm	1260 - 1620nm	-16dBm	10 km, 6.2 mi	Yes
OTR 1810-1 MM	Multi-mode	Short Range	850nm	-4dBm	780 - 880nm	-15dBm	300m / 1000 ft	Yes
OTR 1810-1 CW	Single-mode	Coarse	1270 - 1610nm	-1dBm	1260 - 1620nm	-20dBm	40/80 km, 25/50 mi	No

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Optional Accessories

Rack Frames

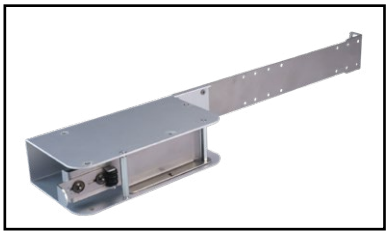
This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

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



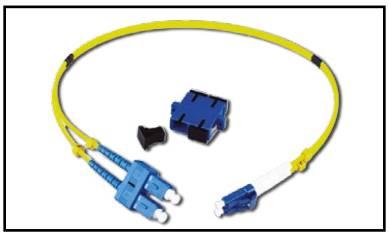
RXT 1001: Power Supply Holder

Fiber Adapter Cables

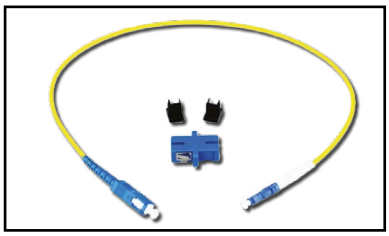
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

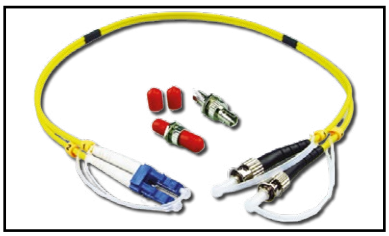
Besides the selection here we offer LC/FC and LC/LC patch cables.



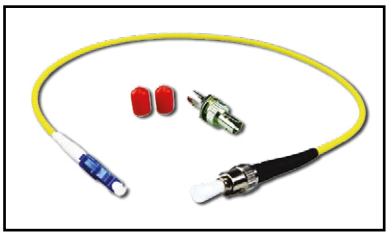
LC/SC Dup: LC/SC Duplex adapter cable



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.