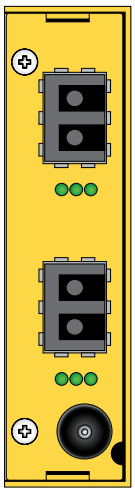
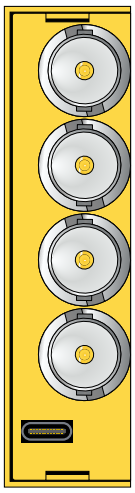
yellobrik®

ORR 1804

LYNX | Centraal™ yelloGUI

4-Channel 3G-SDI Fiber Receiver





Features

- Quad channel
- Supports SDI video inputs up to 3G-SDI 1080p
- 3G-SDI Level A and Level B support (all formats)
- Auto reclocking 270Mbit/s, 1.5Gbit/s, and 3Gbit/s
- Error free optical transmission
- From 40km* (25 miles) or 80km* (50 miles) depending on SFP type
- 10km* (6.2 miles) with standard SFPs
- Duplex LC/PC singlemode optical connection
- Supports hot swapping and hot plugging
- Support CWDM and non-CWDM wavelengths

Description

The ORR 1804 is a compact quad channel 3G-SDI fiber receiver designed to optimize the distribution of uncompressed broadcast quality video signals over long distances.

When paired with an SDI optical transmitter (e.g. yellobrik OTX 1812, OTT 1812, OTT 1814, etc.) it creates a very cost-effective optical transmitter/receiver system while preserving full uncompressed quality.

The ORR 1804 has four completely independent channels and each will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, or 3Gbit/s SDI fiber source prior to electrical conversion.

Technical Specifications

Optical Input	4x fiber inputs 2x Duplex (singlemode) using LC/PC Connections		
	SMPTE 297M - 2006		
	Wavelength:	1260 to 1620nm (each channel)	
	RX Sensitivity:	ORR 1804 -18dBm	up to 3Gbit/s
		ORR 1804 HS -26dBm	up to 3Gbit/s
	4x RX active LED on side of module		
SDI Output	4x 3G-SDI outputs 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	
Power	+12V DC @ 1.5W excl. SFP - (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 - 40°C (41 - 104°F) 90% Humidity (non condensing)		
Model #	ORR 1804	EAN# 4250479529731	
	ORR 1804 HS	EAN# 4250480829899	
Includes	Module, 2x RR SFPs, Power Supply		

*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.

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ORR 1804

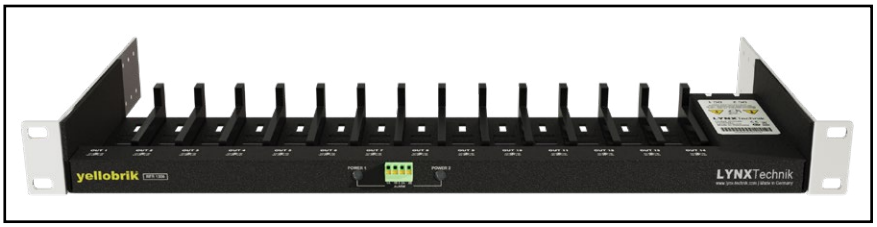
Optional Accessories

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.

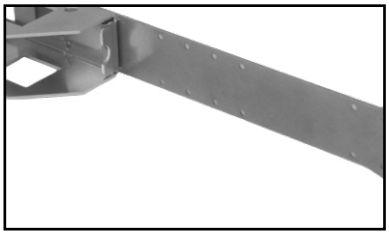
The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

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



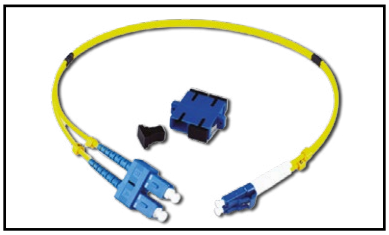
RXT A100: Power Supply Holder

Fiber Adapter Cables

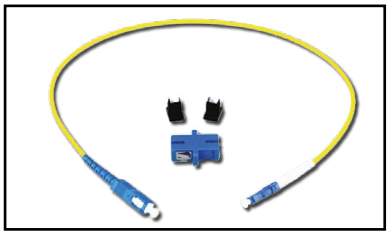
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

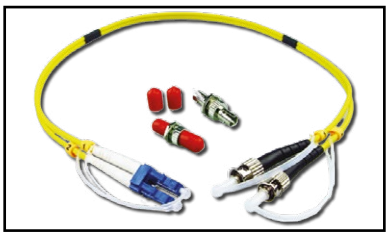
Besides the selection here we offer LC/FC and LC/LC patch cables.



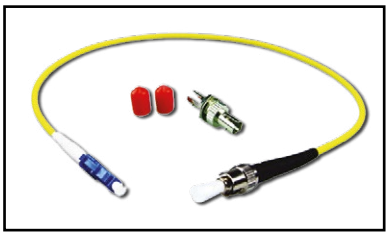
LC/SC Dup: LC/SC Duplex adapter cable



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.