

4-Channel 12G-SDI Fiber Receiver

LYNX | Centraal™

yelloGUI



Features

- Quad channel
- Supports SDI video inputs up to 12G-SDI (4096x2160 @ 60Hz)
- 3G-SDI Level A and Level B support (all formats)
- Auto reclocking 270M, 1.5G, 3G, 6G, 12G-SDI
- Error free optical transmission
- From 40km* (25 miles) with High Sense SFPs
- 10km* (6.2 miles) with standard SFPs
- Supports hot swapping and hot plugging
- Support CWDM and Standard 1310nm fiber

Description

The ORR 1404 is a compact quad channel 12G-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 OTT 1412, OTT1414, OTX1440, etc.) it creates a very cost-effective optical transmitter/receiver system while preserving full uncompressed quality.

The ORR 1404 has four completely independent channels and each will auto-detect and re-clock any 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s, or 12Gbit/s SDI fiber source prior to electrical conversion.

*Distance is an approximation. Determine link losses and the optical budget for the entire path.

Technical Specifications

Optical Input	4x fiber inputs				
	2x Duplex (singlemode) using LC/PC Connections				
	SMPTE 297M - 2006				
	Single-mode Standard 1310nm and CWDM				
4x RX active LED on side of module					
SDI Output	4x 12G-SDI outputs on 75 Ohm BNC connector				
	SMPTE 2082-1, 2081-1, 424M, 292M, 259M				
	Multi-standard operation from 270Mbit/s to 12Gbit/s				
	Multi-rate reclocking: 270Mbit/s to 12Gbit/s				
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic cable EQ:	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		190m	140m	90m	80m
		Belden 1694A cable		Belden 4794R cable	
Power	+12V DC @ 1.8W 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)				
Includes	Module, 2x RR SFPs, Power Supply				

Ordering Information

Model	Mode	Type	Rx Input Range	Rx Sensitivity	Distance (up to)	SFP Included
ORR 1404	Single-mode	Standard & CWDM	1260 - 1620nm	-9dBm	10 km, 6.2 mi	Yes
ORR 1404 HS	Single-mode	Standard & CWDM	1260 - 1620nm	-18dBm	40 km, 25 mi	Yes

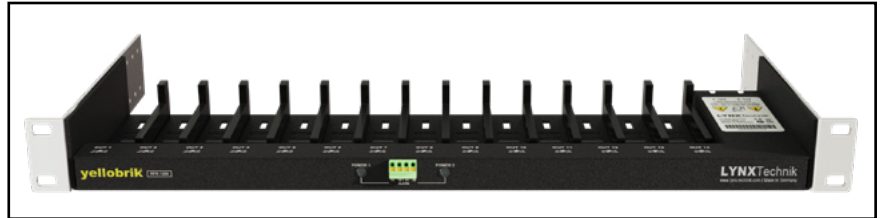
Optional Accessories

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 LynxCentral.

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

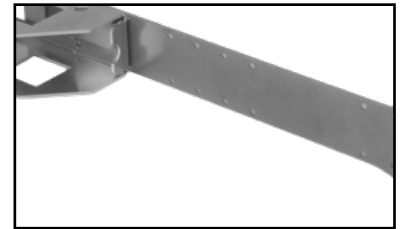
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT A100 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



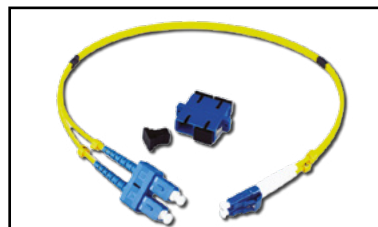
RXT A100: Power Supply Holder

Fiber Adapter Cables

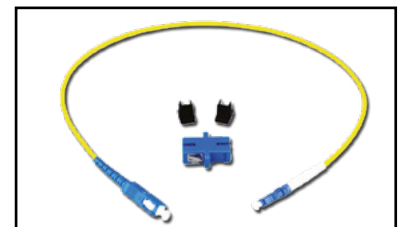
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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 loss and return loss are manually checked for each individual cable to allow for maximum precision when calculating the optical budget.

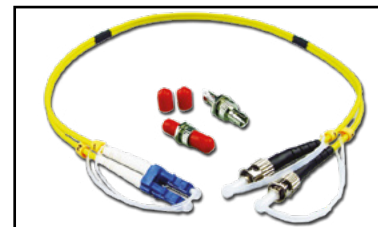
Besides the selection here we offer LC/FC and LC/LC patch cables.



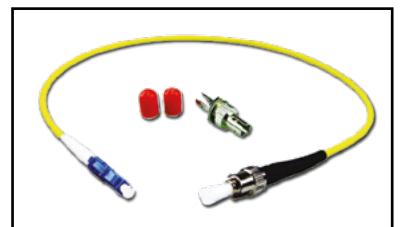
LC/SC Dup: LC/SC Duplex adapter cable



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.