

Dual Channel 3G SDI to Fiber Transmitter (CWDM)

LYNX | Centraal™  yelloGUI 



Features

- Dual Channel
- Supports SDI video inputs up to 3G (1080p60)
- 3G Level A and Level B support (all formats)
- Auto reclocking 270M, 1.5G, and 3G
- Error free optical transmission
- 18 Wavelength selections (ITU-T G.694.2)
- Up to 40km* (24.8 miles) @ 3Gbit/s
- Duplex LC/PC single mode optical connections
- Supports hot swapping and hot plugging

Description

The OTT 1842-1 is a compact CWDM dual channel SDI to fiber optic transmitter designed to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances. 18 wavelengths are available.

When combined with the dual-channel fiber optic to SDI receiver module ORR 1802-2, and the OCM 1891/1892 CWDM multiplexers you have a very cost-effective CWDM fiber system for up to 18 signals in a single fiber link.

The OTT 1842-1 has two completely independent channels. 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.

CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelengths	Power	Option #	EAN / UPC
1270nm, 1290nm	-4...+2dBm	OH-TT-4-1270-1290-LC	4250479327290
1310nm, 1330nm		OH-TT-4-1310-1330-LC	4250479331334
1350nm, 1370nm		OH-TT-4-1350-1370-LC	4250479335370
1390nm, 1410nm		OH-TT-4-1390-1410-LC	4250479339415
1430nm, 1450nm		OH-TT-4-1430-1450-LC	4250479343450
1470nm, 1490nm		OH-TT-4-1470-1490-LC	4250479347496
1510nm, 1530nm		OH-TT-4-1510-1530-LC	4250479351530
1550nm, 1570nm		OH-TT-4-1550-1570-LC	4250479355576
1590nm, 1610nm		OH-TT-4-1590-1610-LC	4250479359611

Technical Specifications

SDI Input	2 x SDI video on 75 Ohm BNC connector (two independent channels)				
	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 250m	1.5Gbit/s 140m	3Gbit/s 80m		
	Belden 1694A cable				
Optical Output	2 x fiber optic outputs Duplex (singlemode) using LC/PC Connections				
	SMPTE 297M - 2006				
Wavelength:	CWDM selection. See select SFP table				
Optical power:	see selected SFP option				
2x TX active LED on side of module					
Max. distance*	max. 40km (24.8 miles) @ 3Gbit/s				
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)				
Model #	OTT 1842-1 EAN# 4250479318427				
Includes	Module, AC 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.

Note: This yellobrik **DOES NOT INCLUDE** the fiber SFP module. Please specify the required SFP option from the option list.

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.

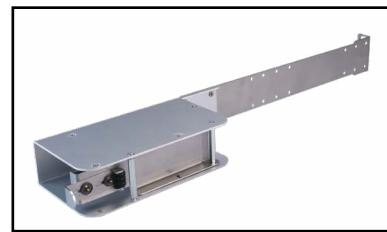
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



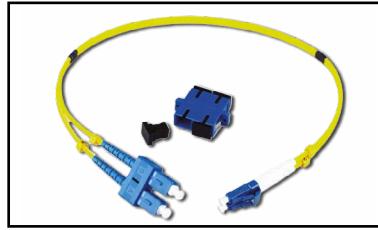
RXT 1001: Power Supply Holder

Fiber Adapter Cables

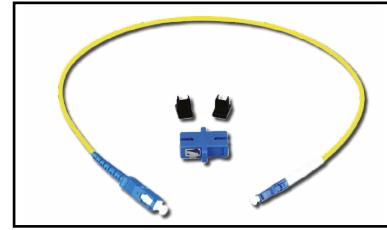
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

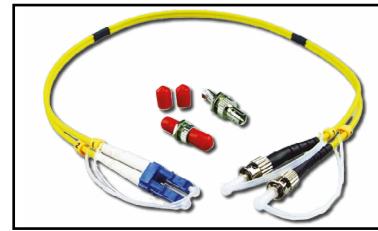
Besides the selection here we offer LC/FC and LC/LC patch cables.



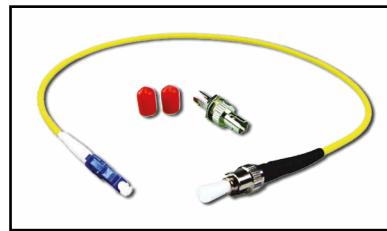
LC/SC Dup: LC/SC Duplex adapter cable



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.