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OTR 1A41

LYNX | Centraal

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8K Fiber Transmission System



Features

- Support for 4 independent 12G/6G/3G/1.5G/270M channels
- Transport 8K (uncompressed) singals up to 10km* (6.2miles)
- Each channel supports resolutions up to 2160p/60Hz
- · Each channel is individually reclocked
- Embedded audio / metadata support for each channel
- Integrated expansion port to add more channels
- · LED indicators for channel activity and power
- Kit includes transmitter, receiver and power supplies
- Optional 19" Rack tray to mount up to 4 modules

Description

The OTR 1A41 is a self contained fiber transmission kit for the transport of 4 discreet 12G-SDI signals (or 8K / 48G uncompressed) over a single fiber link. The kit includes the fiber transmitter, fiber receiver and power supplies. This is an ideal solution for the transmission of multiple uncompressed SDI streams, or 12K signals.

Each SDI channel is fully independent. For 8K use, the signal is split over 4 separate 12G-SDI links (48G) and supports full 8K resolution at 60fps. The system can also be used for any combination of SDI signals, with a mix of formats and bit-rates if required. Each channel will automatically detect and reclock SDI bit rates of 270Mbit/s, 1.5Gbit/s, 3Gbit/s, 6Gbit/s and 12Gbit/s.

LED Indicators are provided for channel presence and power. An optional 19" rack mount tray is available which can accommodate up to 4 modules (RFR 1018).

Note: Internal CWDM optical multiplexing is utilized within the modules. This kit should be considered a self contained point to point solution and should not be integrated into external CWDM systems.

Technical Specifications

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SDI Video	4x 12G-SDI inputs on 75 Ohm BNC connections (OTX 1A41) 4x 12G-SDI outputs on 75 Ohm BNC connections (ORX 1A41)				
	SMPTE 259M-2008 , SMPTE 292-1:2012, SMPTE 292-2:2011 SMPTE 424M-2006 , SMPTE ST-2081, SMPTE ST-2082				
	Multi-standard / Multi-format operation auto-detect.				
	Multi-rate reclocking: 270Mbit/s - 1.5Gbit/s - 3Gbit/s - 12Gbit/s				
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic cable EQ	270Mbit/s	1.5Gbit/s,	3Gbit/s	12Gbit/s
		250m	190m	140m	80m
		Belden 1694A		Belden 4794R	
Fiber Optics	1x Fiber I/O port (COM port) 1x Fiber expansion port (UPG port) Singlemode LC/PC connections				
	SMPTE 297M - 2006				
	Internal CWDM Multiplexing				
	Wavelengths	1270nm, 1290nm, 1310nm, 1330nm			
	Optical budget	10.6dB			
	Max. Distance*	10km (6.2 miles)			
	Fiber activity LEDs for each channel				
Power	+12V DC 3.7W nominal. (Supports input range 7 - 24V DC)				
	2x Power LEDs on side per module				
Physical (per module)	Size (incl. connectors)	170 x 99.7 x 40.5mm (6.7" x 3.9" x 1.6)			
	Weight:	600g (21.1oz)			
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)				
Model #	OTR 1A41	EAN# 4250479326637			
Includes	2 Modules, 2 Power Supplies				

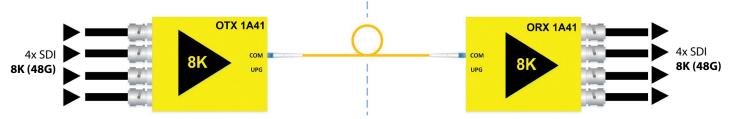
^{*}Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.



Application Examples

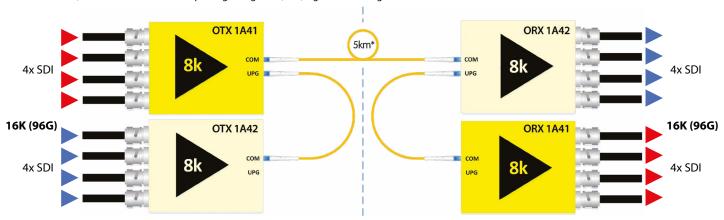
4x SDI (8K 48G) Fiber Transport

This basic configuration is used for transporting up to 4 discreet SDI signals (SD/HD/3G/6G/12G) or it can be used for transporting a 8K (48G) signal over fiber.



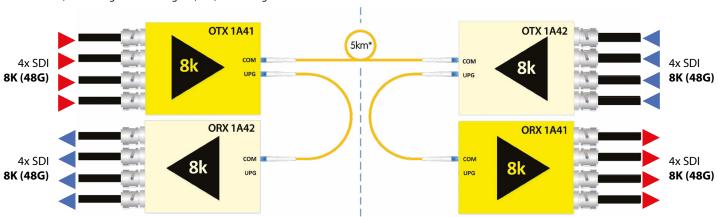
8x SDI (16K 96G) Fiber Transport

This configuration uses the UPG port to add more channels into the link from the OTR 1A42. This can be used to transport 8 discreet SDI signals (SD/HD/3G/6G/12G) or it can be used for transporting a single 8K (48G) signal over a single fiber.



4 x SDI (8K 48G) Bidirectional Fiber Transport

This configuration uses the UPG port to add more channels into the link from the OTR 1A42. This shows a bidirectional application sending and receiving 4 SDI channels, or sending and receiving 8K (48G) over a single fiber.



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Optional Accessories

Rack Frames

This yellobrik kit can be placed in a rack frame along others to build increasingly complex systems in a compact and easily accessible form factor.

The RFR 1018 is a passive (non powered) mounting tray for up to four individual OTR 1A41, OTR 1A42, OTR 1441, or OTR 1442 modules (e.g. OTX 1441, ORX 1441, etc.). The included mounting studs help securing the modules to the rack frame and to each other.



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

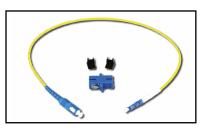
Besides the selection here we offer LC/FC and LC/LC patch cables.



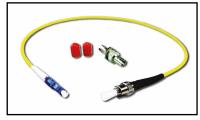
LC/SC Dup: LC/SC Duplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/SC Sim: LC/SC Simplex 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.