



8K Fiber Transmission System

- Support for 4 independent 12G/6G/3G/HD channels
- Transport 8K (uncompressed) signals up to 10km (6.2miles)
- Each channel supports resolutions up to 2160p/60Hz
- Each channel individually relocked
- 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 (max) 4 modules

The OTR 1A41 is a self contained fiber transmission kit for the transport of 4 discreet 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 relock SDI bit rates of 270Mbit, 1.5Gbit, 3Gbit and 12Gbit.

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.

Application

4 x 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.



Technical Specifications

SDI I/O	4 x multi-format 12G/6G/3G/HD/SD-SDI inputs [OTX 1A41] 4 x multi-format 12G/6G/3G/HD/SD-SDI outputs [ORX 1A41] 75 Ω BNC connections
	SMPTE 259M-2008 , SMPTE 292-1:2012, SMPTE 292-2:2011 SMPTE 424M-2006 , SMPTE ST-2081, SMPTE ST-2082 , DVB ASI
	Multi-standard / Multi-format operation auto-detect. Multi-rate relocking: 1.5Gbit / 3Gbit / 12Gbit
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz, >7dB from 3GHz to 6GHz, >4dB from 6GHz to 12GHz
	Automatic cable EQ (Belden 1694A cable) : 150m @ 1.5Gbit/s, 120m @ 3Gbit/s Automatic cable EQ (Belden 4794R cable) : 80m @ 12Gbit/s
Fiber I/O	1 x Fiber optic I/O port (COM port) 1 x Fiber optic expansion port (UPG port) LC/PC connections - Single Mode
	SMPTE 297M - 2006
	Internal CWDM Multiplexing Wavelengths : 1270nm, 1290nm, 1310nm, 1330nm Optical budget: 10.6dB
	Fiber activity LEDs for each channel
Power	+12VDC nominal. ORX 1A41 = 4.4W, OTX 1A41 = 5.4W Supports external power input from 9 - 17 VDC 2 x Power LEDs provided
Physical	170 x 99.7 x 40.5mm (6.7" x 3.9" x 1.6) - (each Module) Weight: 600g (21.1oz) net - (each module)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OTR 1A41 - (EAN# 4250479326637)
Includes	OTX 1A41 - 4K Fiber Transmitter module ORX 1A41 - 4K Fiber Receiver module 2 x 12VDC (brick) power supplies



RFR 1018

19" Rack frame to mount up to 4 modules.
No tools required, modules are clipped securely in place.

Specifications subject to change