# yellobrik® OTR 1A41

## 8K Fiber Transmission System

- Support for 4 independent 12G/6G/3G/HD/SD-SDI channels
- Transport 8K (uncompressed) singals up to 10km (6.2miles)
- Each channel supports resolutions up to 2160p/60Hz
- Each channel 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 (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 reclock 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

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| **SDI I/O** | 4 x multi-format 12G/6G/3G/HD/SD-SDI inputs [OTX 1A41]<br>4 x multi-format 12G/6G/3G/HD/SD-SDI outputs [ORX 1A41]<br>75 Ω BNC connections |
| | SMPTE 259M-2008 , SMPTE 292-1:2012, SMPTE 292-2:2011<br>SMPTE 424M-2006 , SMPTE ST-2081 , SMPTE ST-2082 , DVB ASI |
| | Multi-standard / Multi-format operation auto-detect.<br>Multi-rate reclocking: 270Mbit / 1.5Gbit / 3Gbit / 12Gbit |
| | Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz |
| | Automatic cable EQ (Belden 1694A cable)<br>340m @ 270Mbit/s, 150m @ 1.5Gbit/s, 120m @ 3Gbit/s |
| **Fiber I/O** | 1 x Fiber optic I/O port (COM port)<br>1 x Fiber optic expansion port (UPG port)<br>LC/PC connections - Single Mode |
| | SMPTE 297M - 2006 |
| | Internal CWDM Multiplexing<br>Wavelengths : 1270nm, 1290nm, 1310nm, 1330nm<br>Optical budget: 10.6dB |
| | Fiber activity LEDs for each channel |
| **Power** | +12VDC nominal. ORX 1A41 = 4.4W, OTX 1A41 = 5.4W<br>Supports external power input from 9 - 17 VDC<br>2 x Power LEDs provided |
| **Physical** | 170 x 99.7 x 40.5mm (6.7" x 3.9" x 1.6) - (each Module)<br>Weight: 600g (21.1oz) net - (each module) |
| **Ambient** | 5 - 40ºC (41 - 104ºF) 90% Humidity (non condensing) |
| **Model #** | OTR 1A41 - ( EAN# 4250479326637 ) |
| **Includes** | OTX 1A41 - 4K Fiber Transmitter module<br>ORX 1A41 - 4K Fiber Receiver module<br>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

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