



# yellobrik®

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## Quick Reference

### Technical Specifications

4 x multi-format 12G/3G/HD/SD-SDI inputs [OTX 1A41]  
 4 x multi-format 12G/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-2082,  
 DVB ASI

#### SDI I/O

Multi-standard / Multi-format operation auto-detect.  
 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)  
 340m@270Mbit, 150m@1.5Bgbt, 120m@3Gbit

1 x Fiber optic I/O port (COM port)  
 1 x Fiber optic expansion port (UPG port)  
 LC/PC connections - Single Mode

#### Fiber I/O

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  
 Support 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)

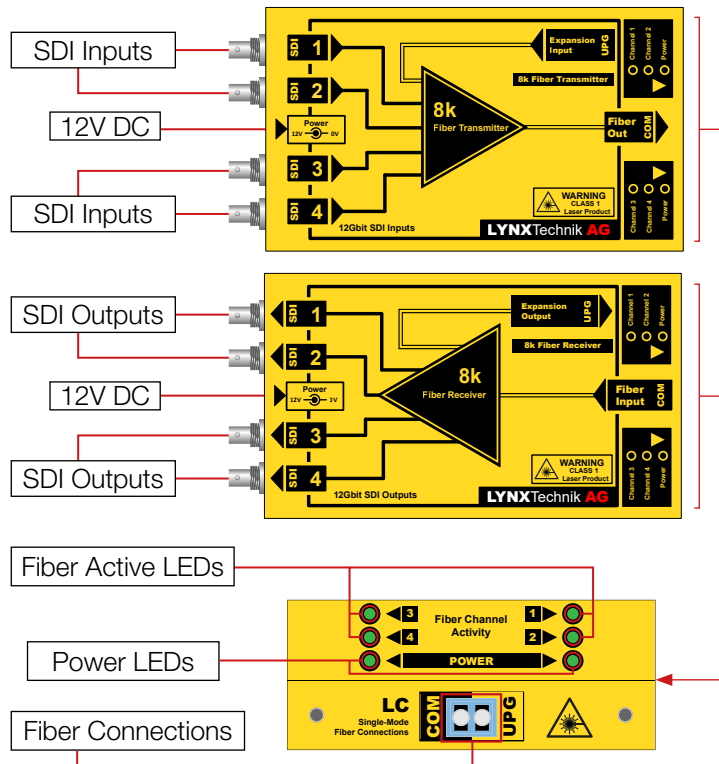
Please visit the yellobrik website to see all the yellobriks

[yellobrik.lynx-technik.com](http://yellobrik.lynx-technik.com)



### OTR 1A41

### 8k Fiber Transmission System



## Introduction

The OTR 1A41 is a self-contained fiber conversion solution for the transmission of up to 4 uncompressed discreet SDI signals over a single fiber link. The kit includes a OTX 1A41 Fiber Transmitter and ORX 1A41 Fiber Receiver and 2 Power Supplies.

Each SDI channel is independent and can be any SDI format. For 8K applications, 4 x 12G SDI links (48G) are typically used. Each SDI channel is transparent with support for embedded audio and any associated ancillary metadata in the SDI stream. The modules will auto-detect and re-clock SDI bit-rates of 270Mbit, 1.5Gbit, 3Gbit and 12Gbit.

## Connections

The SDI electrical input and outputs are BNC connections, and the fiber I/O is connected to the COM port on each module using LC connectors.



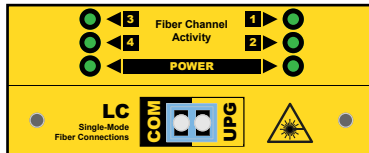
**Note:** The modules are CWDM devices and can only be used with SMF (Singlemode fiber). Multimode fiber is not supported.

The module has no user settings, operation is fully automatic. The module supports hot plugging the connections.

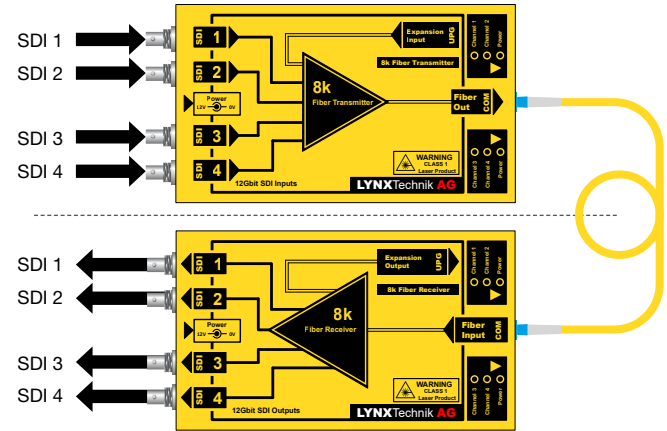
## Indicators

The module uses optical CWDM multiplexing internally. Fiber activity LEDs are provided which indicates the presence of active optical signals in the corresponding channel.

Two power LEDs are also provided and both need to be ON for normal operation.



**Note:** This system should be considered a closed loop point to point system and should not be integrated into an external CWDM system. A UPG port is provided to accommodate the addition of additional SDI channels into the single fiber link.



The fiber connection is made between each COM port.

## Power

2 x 12VDC external power supply bricks are provided. 12VDC is the nominal power level. An external DC input between 9-17 VDC is supported (for battery operation). **DO NOT** exceed 17 VDC as damage to the module will result. Each module requires 5.5W of power.

## Power Lead Strain Relief

There is a small extruded loop above the power connector which can be used with the supplied tie-wrap to secure the power lead.

