



# yellobrik®

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## Quick Reference

### Technical Specifications

**SDI Video** 1 x SDI video input on 75 Ohm BNC connectors  
 1 x SDI video output on 75 Ohm BNC connectors

SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI

Multi-standard operation from 270Mbit/s to 3Gbit/s

Return Loss: > 15dB up to 1.5GHz ; > 10dB up to 3GHz

Automatic cable EQ (Belden 1694A cable)  
 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s

**Fiber Optic** 1 x Fiber optic input (LC/PC Connection)  
 1 x Fiber optic output (LC/PC Connection)

SMPTE 297M - 2006

Singlemode Version: OTR 1810-1 LC  
 Transmitter: 1310nm (-5 dBm)  
 Receiver: 1260nm to 1620 nm (-16 dBm)  
 Max. distance 10km (6.2 miles) @ 3Gbit/s

Multimode Version: OTR 1810-1 MM  
 Transmitter: 850nm (-7 dBm to -2 dBm)  
 Receiver: 750nm to 880nm (-15 dBm)

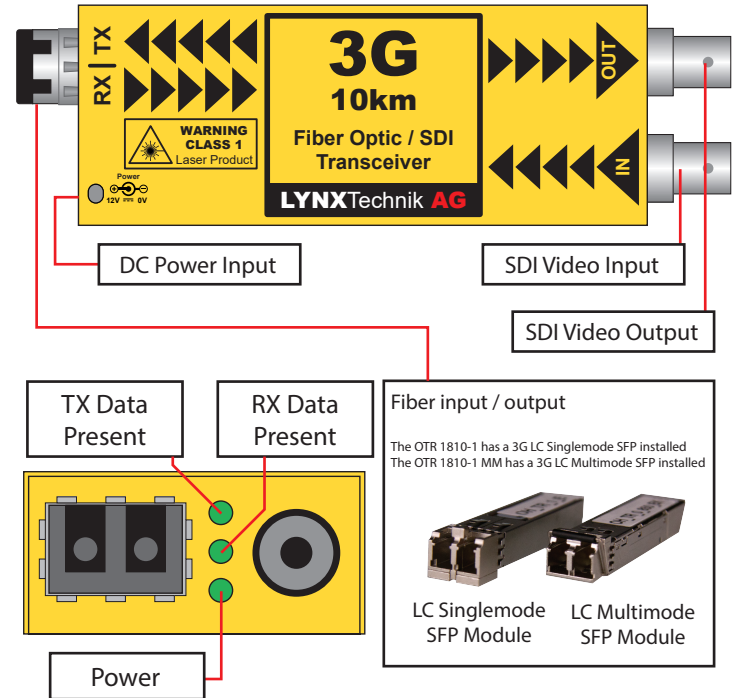
TX, RX and Power LED on side of module

**Power** +12V DC @ 2.7W nominal - (power supply included)  
 (supports 7 - 24V DC input range)  
 Power LED on side of module

We are constantly adding additional yellobrik modules.  
 Please visit our website for the latest product updates.

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

### OTR 1810-1 (MM) 3G SDI / Fiber Optic Transceiver



**WARNING**  
 CLASS 1M LASER PRODUCT



**LASER RADIATION**  
 Do not view directly with  
 optical instruments

## Connections

The SDI Video in- and outputs are connected to the corresponding 75 Ohm BNC connections provided. The fiber connection is made to the LC connector as indicated on the module. An example of a LC connector shown below.

**Note:** The module is designed for use with either single- or multimode fiber cable.



OTR 1810-1 LC (Singlemode) and MM (Multimode) both use a dual LC connection. Please use the appropriate cable type for the module.

Use the included dust plug to protect the optical connection from dust.

## Operation

The OTR 1810-1 supports any SDI video signal from 270Mbit/s to 3Gbit/s. The fiber input wavelength for the singlemode module is 1270nm - 1610nm and for multimode 760nm - 870nm. Data reception activity is indicated by the RX LEDs on the side of the module.

Operation is fully automatic. The fiber input video rates are automatically detected, relocked and provided on the BNC output connectors. No user settings are provided for this module. The module supports hot swapping and hot plugging of connections.

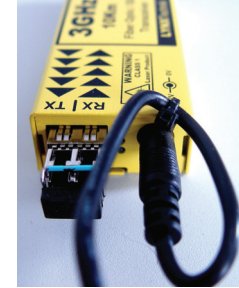
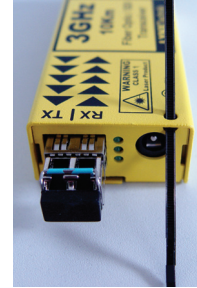
**Note:** If TX LED is OFF this indicates no SDI input is present, or the input signal is not valid. If RX LED is OFF this indicates no signal is present, signal too weak or is a non valid input.

## Power

The module requires a clean 12V DC (7-24V DC) power source. An LED is provided to confirm power is connected. A 12V DC power supply is included with the module. If you are applying your own power source, please provide a clean, 7-24V DC power source. Power consumption information can be found in the technical specifications table.

## Power Lead Strain Relief

The modules have a small hole in the case located above the power connection to prevent the power lead being accidentally pulled out. Use the supplied tie-wrap and secure the lead as shown below.



## Optional Mounting Brackets

The optional RFR 1001 mounting brackets can be used to permanently mount the modules on any flat surface or on 19" rack rails.



The optional RFR 1000-1 rack mount can be used to permanently mount up to 14 yellobrik modules. In addition, the RFR 1000-1 can provide full power redundancy for all mounted yellobriks.



**Note:** OTR 1810-1 is identical in terms of mounting and securing