



OTT1812-1\_R02

# yellobrik®

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## Quick Reference

### Technical Specifications

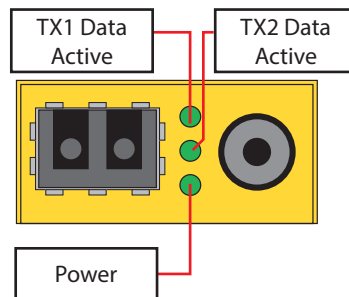
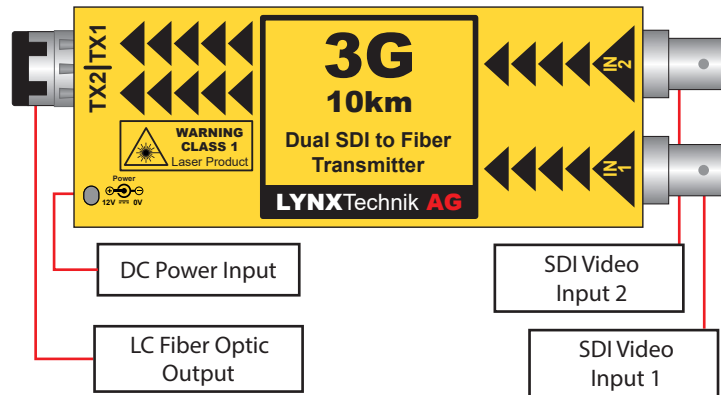
<b>SDI Input</b>	2 x SDI video on 75 Ohm BNC connectors SMPTE 424M, SMPTE 292M, SMPTE 259M Multi-standard operation from 270Mbit/s to 3Gbit/s Multirate reclocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s Return Loss: >15dB up to 1.5GHz ; >10dB up to 3GHz Automatic cable EQ 260m @ 1.5Gbit/s ; 150m @ 3Gbit/s (Belden 1694A cable)
<b>Optical Outputs</b>	2 x fiber optic outputs Duplex (Singlemode) using LC/PC Connectors SMPTE 297M - 2006 Wavelength 1310nm (each channel) Optical power -5.5dBm to +0.5dBm (each channel) 2x TX data active LEDs on side of module Max. distance 10km (6.2 miles) @ 3Gbit/s (Singlemode)
<b>Power</b>	+12V DC @ 1.9W 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)

### OTT 1812-1

#### Dual Channel 3G SDI to Fiber Transmitter



## WARNING



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

**CLASS 1M LASER PRODUCT**

**WARNING:** Module laser is active as soon as power is connected, regardless of LED indication

**LYNXTechnik AG®**

Broadcast Television Equipment

## Connections

The SDI video input is connected to the 75 Ohm BNC connections (up to 3G). The fiber connection is LC Duplex SMF (Singlemode). An example of the LC connector shown below (fiber optic cable and LC connectors are not supplied).

**Note:** The module is designed for use with SMF (Singlemode) fiber cable. While it is possible to use Multimode cable, performance (distance) is greatly degraded and not guaranteed.



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

## Operation

The OTT 1812-1 supports any SDI video signal from 270Mbit/s to 3Gbit/s. Maximum distance is 10km (6.2 miles). Data transmission activity is indicated by the TX LEDs on the side of the module.

The module has two identical (and fully independent) channels. Operation is fully automatic. For reception, the received SDI format is detected automatically and provided on the SDI input connection (up to 3G). The module supports hot swapping and hot plugging of connections. No user settings are provided for this module.

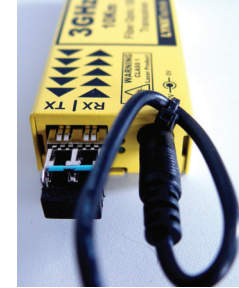
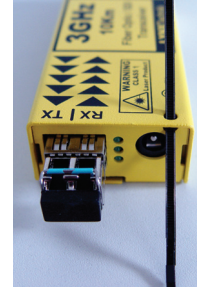
**Note:** If TX LED is OFF this indicates no SDI input is present, or the input signal is not valid.

## 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:** OTT 1812-1 is identical in terms of mounting and securing