



# yellobrik®

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## Quick Reference

### Technical Specifications

**SDI Video** 1 x SDI input on 75 Ohm BNC connector  
1 x Reclocked loop output on 75 Ohm BNC connector

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

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

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

Automatic cable EQ (Belden 1694A cable)  
320m @ 270Mbit/s, 150m @ 1.5Gbit/s, 120m @ 3Gbit/s

**Optical Output** SMPTE 297M - 2006

**Singlemode Version: OTX 1812 LC/ST/SC**  
Transmitter: 1310nm (-8 dBm to -3dBm)  
Max. distance 10km (6.2 miles)  
LC/ST/SC Connection

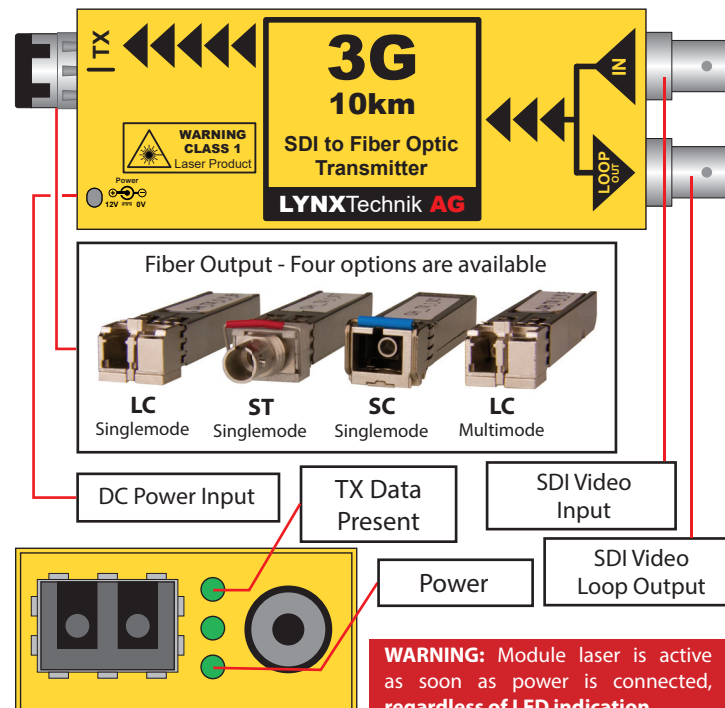
**Multimode Version: OTX 1812 MM**  
Transmitter: 850nm (-7dBm to -2dBm)  
LC/PC Connection

**Power** +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)

### OTX 1812 (LC/ST/SC/MM) 3G SDI Fiber Optic Transmitter



**WARNING**  
CLASS 1M LASER PRODUCT



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

**LYNXTechnik AG®** | Broadcast Television Equipment

## Connections

The SDI input and reclocked SDI output are connected to the 75 Ohm BNC connections. The fiber connection is made to the fiber SFP sub module as indicated on the module.

Four versions of the module are available. The only difference is the SFP sub module installed into the basic module.

**OTX 1812 LC** - Singlemode LC fiber connection

**OTX 1812 ST** - Singlemode ST fiber connection

**OTX 1812 SC** - Singlemode SC fiber connection

**OTX 1812 MM** - Multimode LC fiber connection

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

## Operation

The OTX 1812 supports all SDI formats from 270Mbit/s to 3Gbit/s. Data transmission activity is indicated by the TX LED on the side of the module.

Operation is fully automatic. The SDI input video format is automatically detected and the video signal is reclocked and then transmitted over the optical connection. There are no user adjustments for the module. The module supports hot swapping and hot plugging of all connections.

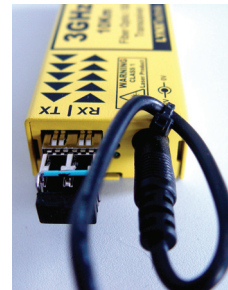
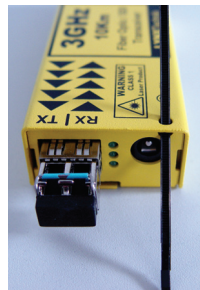
**Note:** If TX LED is OFF this indicates no SDI input is present, or the input signal is not valid.

## 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:** OTX 1812 is identical in terms of mounting and securing