



### Technical Specifications

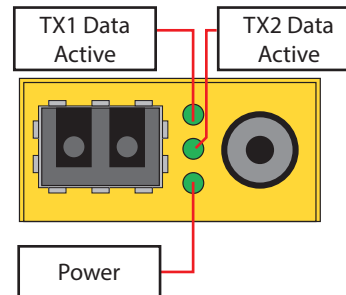
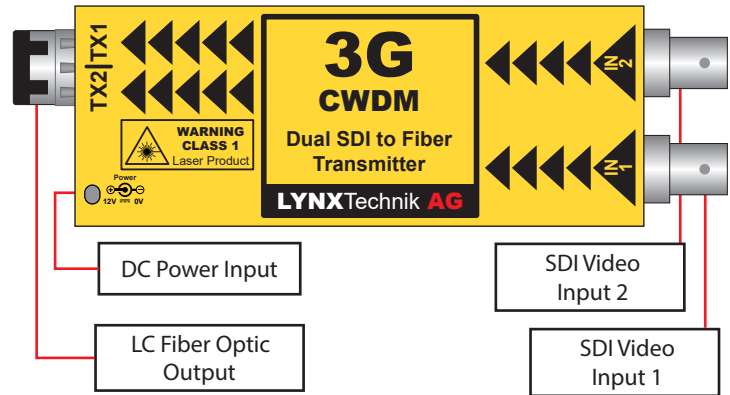
<b>SDI Input</b>	2 x SDI video on 75 Ohm BNC connector
	SMPTE 424M, SMPTE 292M, SMPTE 259M
	Multi-standard operation from 270Mbit/s to 3Gbit/s
	Multirate reclocking 270Mbit/s - 1.5Gbit/s - 3Gbit/s
	Return Loss: > 15dB up to 1.5GHz ; > 10dB up to 3GHz
	Automatic cable EQ
	260m @ 1.5Gbit/s ; 150m @ 3Gbit/s (Belden 1694A cable)
<b>Optical Outputs</b>	2 x fiber optic outputs (CWDM)
	Duplex (Singlemode) using LC/PC Connections
	SMPTE 297M - 2006
	18 Wavelength selections, in pairs - per ITU-T G.694.2
	Optical Power -1dBm (each channel)
	2x TX data active LEDs on side of module
	Max. distance 40km (24.8 miles) @ 3Gbit/s (Singlemode)
<b>Power</b>	+12V DC @ 1.9W nominal - power supply (included)
	( supports external power input from 7 - 24V DC )
	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 1842-1

#### Dual Channel 3G SDI to Fiber Transmitter (CWDM)



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

## WARNING



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

**CLASS 1M LASER PRODUCT**

## 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.



The OTT 1842-1 basic module has no pre-determined fiber SFP sub module included. Instead, when ordering the CWDM module the customer selects one of the 18 available wavelengths when ordering the module. If you need to check the wavelength of an SFP, a sticker with the type description can be found on every LYNX-Technik SFP when removing it from the yellobrik module.

## Operation

The OTT 1842-1 supports any SDI video signal from 270Mbit/s to 3Gbit/s. Maximum distance is 40 km (24.8 miles). Data transmission activity is indicated by the TX LEDs on the side of the module.

The module has two independent channels. It supports CWDM with the wavelength selected at the time of order.

Operation is fully automatic. The SDI Input video rates are automatically detected, relocked and transmitted over the optical connections.

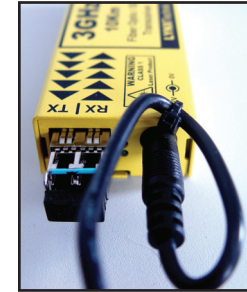
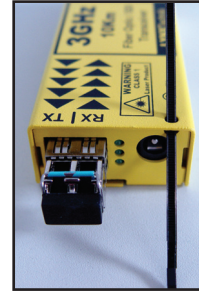
**Note:** If TX LED is OFF this indicates no SDI input is present, or the input signal is not valid.

## 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:** OTT 1842-1 is identical in terms of mounting and securing