



OTX1842_R03

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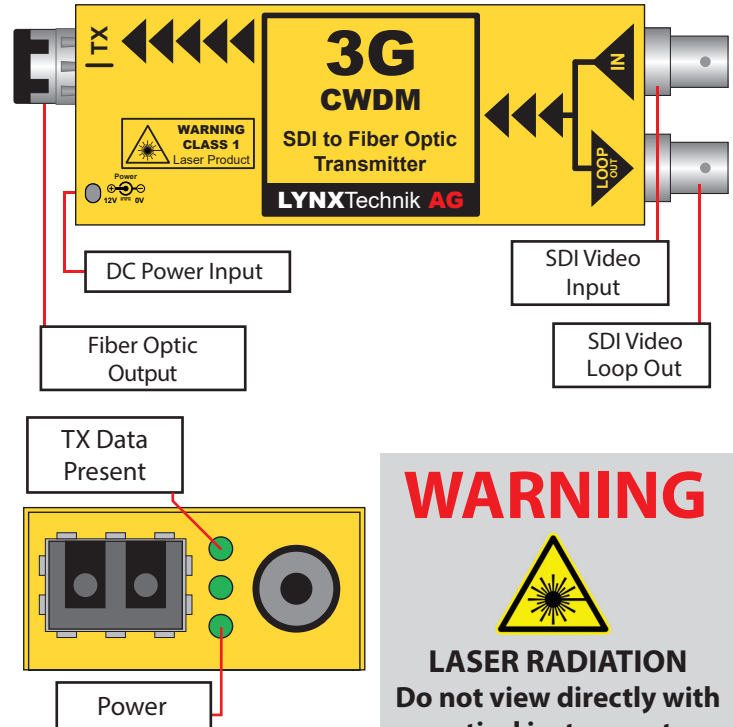
Quick Reference

Technical Specifications

SDI Video	1 x SDI video 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 up to 1.5GHz ; > 10dB up to 3GHz
	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Optical Output	1 x Fiber optic output (LC/PC Connections) (CWDM - 18 selectable wavelengths - ITU-T G.694.2)
	SMPTE 297M - 2006
	TX power -1dBm
	Max. distance 40km (24.8 miles)
Power	+12V DC @ 1.9W nominal - (power supply included) (supports 7 - 24V DC input range) Power LED on side of module

OTX 1842

3G SDI to Fiber Optic 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

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

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LYNXTechnik AG®

Broadcast Television Equipment

Connections

The SDI input and relocked SDI output are connected to the 75 Ohm BNC connections. The fiber connection is made to the singlemode LC connector as indicated on the module. An example of the LC connector is shown below.



Note: The module is designed for use with SMF (Singlemode) fiber cable.

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

18 wavelengths are available to choose from when ordering the module.

Operation

The OTX 1842 supports all SDI formats from 270Mbit/s to 3Gbit/s as well as DVB/ASI. 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 relocked and then transmitted over the optical connection and the loop out. There are no user adjustments for the module. The module supports hot swapping and hot plugging of all connections.

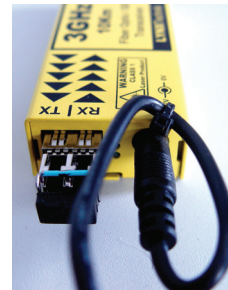
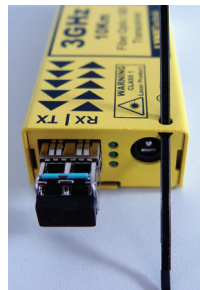
Note: If TX LED is OFF this indicates no SDI input is present, or the input signal is not valid.

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 1842 is identical in terms of mounting and securing