

Technical Specifications

SDI Video	1x SDI input on 75 Ohm BNC connector 1x 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
Fiber	1x 3G-SDI Transmitter SFP Simplex LC, ST or SC connector Single-mode, Multi-mode or CWDM SMPTE 297M - 2006 Side-mounted TX activity LED
Power	+12V DC @ 1.9W nominal - (supports 7 - 24V DC input range)
Physical	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") incl. connectors Weight: 125g (4.4oz)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OTX 1812 LC	Single	Single	1310nm	Yes
OTX 1812 SC	Single	Single	1310nm	Yes
OTX 1812 ST	Single	Single	1310nm	Yes
OTX 1812 MM	Multi	Short Range	850nm	Yes
OTX 1812 CW	Single	Coarse	1270 - 1610nm	No



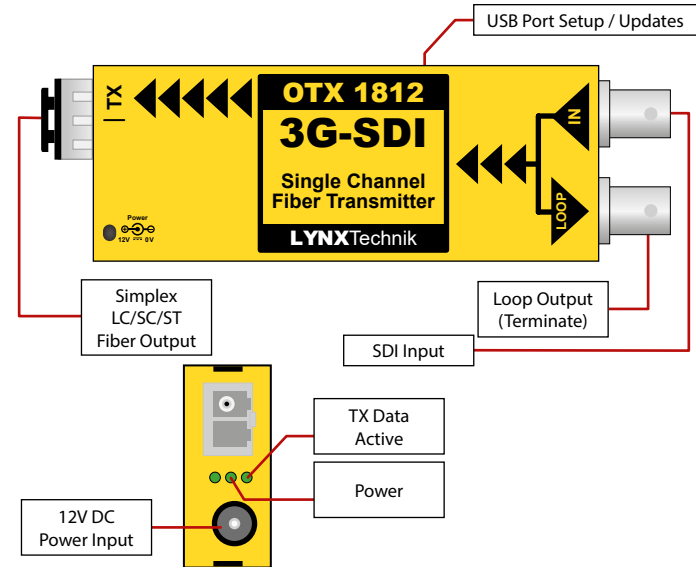
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OTX 1812 3G-SDI to Fiber Transmitter



The OTX 1812 is a compact 3G-SDI fiber transmitter for long-distance transport of uncompressed broadcast-quality video. It automatically detects and re-clocks 3G, HD, and SD-SDI signals before optical conversion, supporting 3G Level A and B formats. Available with standard 1310nm Single-mode, Multi-mode, and CWDM SFP options.

Connections

The SDI inputs is connected to the 75 Ohm BNC connection. Depending on the model, the fiber interface supports an LC/PC simplex SMF, MMF or CWDM connection.

The loop output should be terminated with a 75 Ohm cap when not in use.

To protect the optical interface from dust and contamination, keep the supplied dust plug installed whenever the fiber connection is not in use. A USB port is provided for firmware updates, configuration, and monitoring. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

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 if 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.

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	"Locate Module" function active
	Red (blinking)	Hardware Issues
	Off	Device Not Powered

TX LED		
	Green	Output Signal Active
	Off	No Input Signal Detected, No Signal Transmitted (Laser Active)

Distances

OTX 1812 LC, ST, SC	Single-mode 1310nm: up to 10km (6.2 miles)
OTX 1812 MM	Multi-mode: up to 300m (1000 feet)
OTX 1812 CW	Single-mode Coarse Wavelengths: up to 80km (50 miles)

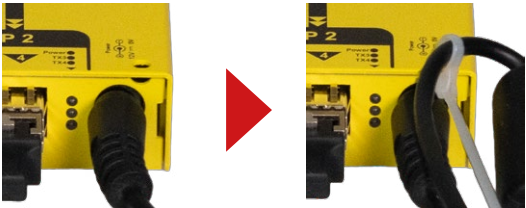
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–24V DC source is required.

The OTX 1812 has a power consumption of 1.9W (including SFP).

Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19" rack rails.



The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.

