

Technical Specifications

SDI Video	Sync = analog black burst / SDTV bi-level / HDTV tri-level Video = NTSC / PAL composite video 1x passive loop output (terminate if not used) 75 Ohm BNC connectors NTSC SMPTE 170M, PAL CCIR624 Analog tri-level sync SMPTE ST 274, ST 296 Return loss: 31dB to 10MHz
Fiber	1x 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 @ 3.4W nominal - (supports 8 - 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 1712-2 LC	Single	Single	1310nm	Yes
OTX 1712-2 SC	Single	Single	1310nm	Yes
OTX 1712-2 ST	Single	Single	1310nm	Yes
OTX 1712-2 MM	Multi	Short Range	850nm	Yes
OTX 1712-2 CW	Single	Coarse	1270 - 1610nm	No



WARNING
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 LASER RADIATION

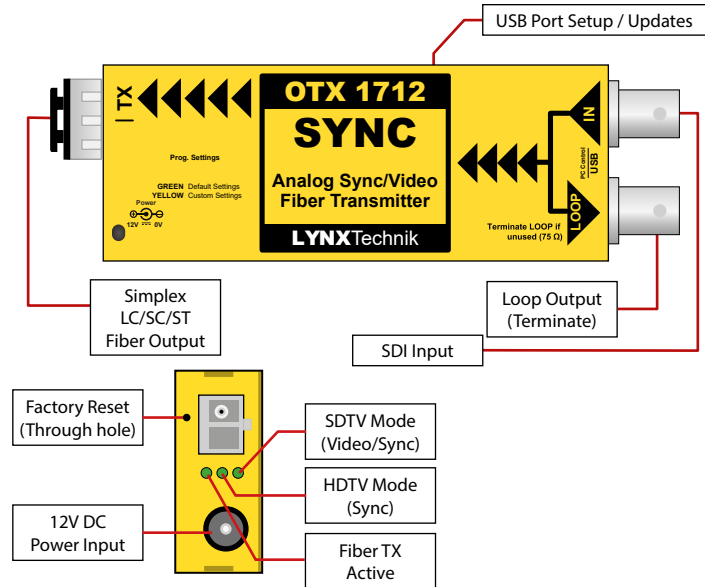
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OTX 1712-2

Analog Sync/Video to Fiber Transmitter



The OTX 1712-2 converts analog sync and NTSC/PAL composite video to fiber for reliable optical transport. Paired with the ORX 1702-1 receiver, it provides a robust transmission solution with stable sync and color burst performance. It is available with single-mode 1310nm, Multi-mode and CWDM SFPs options.

Connections

The analog video/sync input 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

Operation of the OTX 1712-2 is fully automatic. The analog video or sync input format is automatically detected, converted and transmitted over the fiber optic connection. LEDs are provided on the side of the module to indicate the module operating mode (SDTV or HDTV).

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	“Locate Module” function active
	Yellow	Power OK with programmed settings applied. Reset to Clear.
	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 1712-2 LC, ST, SC	Single-mode 1310nm: up to 10km (6.2 miles)
OTX 1712-2 MM	Multi-mode: up to 300m (1000 feet)
OTX 1712-2 CW	Single-mode Coarse Wavelengths: up to 80km (50 miles)

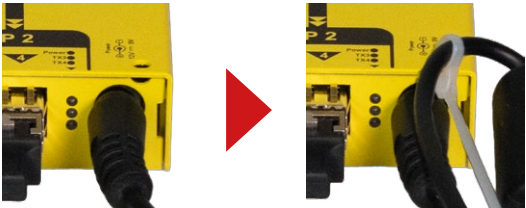
Power

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 1712-2 has a power consumption of 3.4W (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.

