

# fiber options

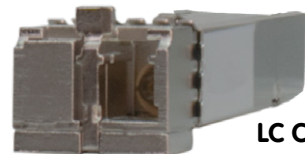
## OH-TX-1 LC/SC/ST Fiber SFP Data Sheet

### 3Gbit SDI Optical Transmitter

- SDI multi-rate optical transmitter for 3G-SDI, HD-SDI and SD-SDI signals
- Support for SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
- 1310nm wavelength (non CWDM).
- Distances up to 10km\*\* (singlemode)
- For use with yellobrik and Series 5000 product lines
- Pluggable and hot swappable
- Available with LC, SC or ST connectors (singlemode fiber only)
- Lead free and RoHS compliant

The OH-TX-1 SDI optical transmitter is an integrated part or plug in option for select LYNX Technik yellobrik and Series 5000 products. This SFP module facilitates the conversion of an electrical SDI signal into an optical signal for transmission over fiber. Wavelength is a fixed 1310nm and suitable for distances up to 10km\*\*. The module accommodates 270Mbit / 1.485Gbit and 2.97Gbit SDI signals conforming to SMPTE 424M, 292M, 259M and DVB-ASI.

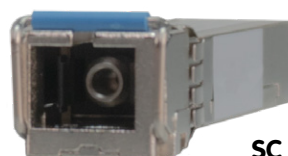
A socket, or "cage" is provided for the SFP in the supporting LYNX product for easy installation or upgrade. The SFP is hot swappable.



LC Connector



ST Connector



SC Connector

### Specifications

Parameter		Min	Typ	Max
Intrinsic Jitter (ps)	2.97 Gb/s	-	45	80
	1.485 Gbit/s	-	45	80
	270 Mbit/s	-	45	80
Wavelength		1290nm	1310nm	1330nm
Optical Power		-8dBm	-5dBm	-3dBm
Distance		-	10km**	-
Linear Extinction Ratio		5.0	8.0	-
Operating Temperature Range		5°C	-	40°C
Power Supply Voltage		3.1VDC	3.3VDC	3.5VDC
Power Consumption		-	130 mA	180 mA
Humidity (non condensing)		-	-	90%

### Mechanical

Parameter	
Size (not including connector - typ)	57mm x 13.4mm x 12.4mm
Weight	50g
SFP Connector pinning	MSA
Fiber connections	LC / SC / ST Simplex - single mode

Country of manufacture: Taiwan

### Ordering Information

EAN / UPC	Model	Description
4250479318205	OH-TX-1-LC	3G SDI Fiber Transmitter - LC connector
4250479320215	OH-TX-1-Y-SC	3G SDI Fiber Transmitter - SC connector - No DDMI support
4250479320222	OH-TX-1-Y-ST	3G SDI Fiber Transmitter - ST connector - No DDMI support

\*\* 10km distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of fiber cable and accumulated optical losses in the fiber link. Determine link losses and perform optical budget calculations to ensure correct operation.

### WARNING

These SFP modules are Class 1 laser devices which comply to IEC825 and FDA 21 CFR 1040.10 and 1040.11. The device must be operated within specified temperature and voltage limits. The optical ports of the module must always be terminated with an optical connector or a dust plug (dust plug supplied)



Rev 2.1 Specifications subject to change

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