

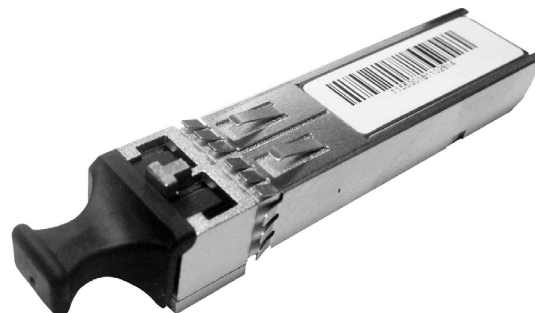
fiber options

OH-TR-1-LC Fiber SFP Data Sheet

3Gbit SDI Optical Transceiver

- SDI multi-rate optical transceiver for 3G-SDI, HD-SDI and SD-SDI signals
- Receiver and transmitter in single package
- Support for SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
- 1310nm TX Wavelength - singlemode
- LC Duplex fiber connections
- Receive wavelengths 1260 to 1620nm according to ITU-T G694.2
- TX Distances up to 10km**
- For use with yellobrik and Series 5000 product lines
- Pluggable and hot swappable
- Lead free and RoHS compliant

The OH-TR-1-LC SDI optical transceiver is an integrated part or plug in option for select LYNX Technik yellobrik and Series 5000 products. This SFP module includes a receiver and a transmitter which facilitates the conversion of an electrical SDI signal into an optical signal for transmission over fiber, and also receives an optical SDI signal and converts to an electrical signal for further processing. Wavelength is a fixed 1310nm and suitable for distances up to 10km**. The



Shown with dust cap fitted

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.

TX 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
Linear Extinction Ratio		5.0	8.0	-

RX Specifications

Parameter		Min	Typ	Max
Receiver Sensitivity	2.97 Gb/s	-16 dBm	-	-
	1.485 Gbit/s	-16 dBm	-	-
	270 Mbit/s	-16 dBm	-	-
Wavelength		1260nm	-	1620nm
Overload		-	-	-3 dBm
Loss of Signal Asserted		-35 dBm	-	-
Loss of Signal De-Asserted		-	-	-16 dBm
Optical Hysteresis		0.5 dB	2dB	-

** 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.

Country of manufacture: Taiwan

Mechanical

Parameter	
Size (not including connector - typ)	57mm x 13.4mm x 12.4mm
Weight	50g
SFP Connector pinning	MSA
Fiber connections	LC / Duplex - Singlemode
Operating Temperature Range	5°C - 40°C
Power Supply Voltage	3.3VDC
Power Consumption	130mA typical 180mA max
Humidity (non condensing)	90%

Ordering Information

EAN / UPC	Model	Description
4250479318137	OH-TR-1-LC	3G SDI Fiber Transceiver

WARNING

This SFP module is a Class 1 laser device which complies 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 1.1 Specifications subject to change

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