

fiber options

OH-TR-12G-XXXX-LC Fiber SFP Data Sheet

12Gbit SDI Dual-fiber Optical Transceiver - CWDM

- Multi-rate optical transceiver for 12G, 6G, 3G, and HD-SDI signals
- Receiver and transmitter in single package
- Support for SMPTE 2082, SMPTE 2081, SMPTE 424M, and SMPTE 292M
- 18 CWDM wavelength selections according to ITU-T G694.2
- Receive wavelengths 1260 to 1620nm according to ITU-T G694.2
- 12Gbps transmission for 10km** (singlemode)
- For use with yellobrik, greenMachine and Series 5000 product lines
- Pluggable and hot swappable
- Lead free and RoHS compliant



Shown with dust cap fitted

The OH-TR-12G-XXXX-LC SDI optical transceiver is a plug in option for select LYNX Technik yellobrik, greenMachine 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. 18 CWDM wavelength selections are provided and it is suitable for distances up to 10km**. The module accommodates 11.88Gbit, 5.94Gbit, 2.97Gbit, and 1.485Gbit SDI signals conforming to SMPTE 2082, SMPTE 424M, and SMPTE 292M.

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
Wavelength	$\lambda - 10\text{nm}$	λ	$\lambda + 10\text{nm}$
Optical Power	-2dBm	-	+3dBm
Linear Extinction Ratio	3.5	-	-

$\lambda = 1270/1290/1310/1330/1350/1390/1410/1430/1450/1470/1490/1510/1530/1550/1570/1590/1610$

RX Specifications

Parameter	Min	Typ	Max
Receiver Sensitivity	11.88Gb/s	-	-10dBm
	6Gb/s	-	-10dBm
	2.97Gb/s	-	-14dBm
	1.485Gb/s	-	-14dBm
Wavelength	1260nm	-	1620nm
Overload	-2dBm	-	-
Loss of Signal Asserted	-30dBm	-	-
Loss of Signal De-Asserted	-	-	-10dBm
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.

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	300mA typical 400mA max
Humidity (non condensing)	90%

Ordering Information

EAN / UPC	Model	Description
4250479326552	OH-TR-12G-1270-LC	12G SDI Fiber Transceiver - 1270nm
4250479326569	OH-TR-12G-1290-LC	12G SDI Fiber Transceiver - 1290nm
4250479326576	OH-TR-12G-1310-LC	12G SDI Fiber Transceiver - 1310nm
4250479326583	OH-TR-12G-1330-LC	12G SDI Fiber Transceiver - 1330nm
4250479326682	OH-TR-12G-1350-LC	12G SDI Fiber Transceiver - 1350nm
4250479326699	OH-TR-12G-1370-LC	12G SDI Fiber Transceiver - 1370nm
4250479326705	OH-TR-12G-1390-LC	12G SDI Fiber Transceiver - 1390nm
4250479326712	OH-TR-12G-1410-LC	12G SDI Fiber Transceiver - 1410nm
4250479326729	OH-TR-12G-1430-LC	12G SDI Fiber Transceiver - 1430nm
4250479326736	OH-TR-12G-1450-LC	12G SDI Fiber Transceiver - 1450nm
4250479326743	OH-TR-12G-1470-LC	12G SDI Fiber Transceiver - 1470nm
4250479326750	OH-TR-12G-1490-LC	12G SDI Fiber Transceiver - 1490nm
4250479326767	OH-TR-12G-1510-LC	12G SDI Fiber Transceiver - 1510nm
4250479326774	OH-TR-12G-1530-LC	12G SDI Fiber Transceiver - 1530nm
4250479326781	OH-TR-12G-1550-LC	12G SDI Fiber Transceiver - 1550nm
4250479326798	OH-TR-12G-1570-LC	12G SDI Fiber Transceiver - 1570nm
4250479326804	OH-TR-12G-1590-LC	12G SDI Fiber Transceiver - 1590nm
4250479326811	OH-TR-12G-1590-LC	12G SDI Fiber Transceiver - 1610nm

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)

Country of manufacture: Taiwan

Specifications subject to change



Rev 1.5

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