

fiber options

OH-TX-4-XXXX-LC Fiber SFP Data Sheet

3Gbit SDI Optical Transmitter – CWDM

- SDI multi-rate optical transmitter for 3G-SDI, HD-SDI and SD-SDI signals
- Support for SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
- 18 wavelength selections according to ITU-T G694.2
- Distances up to 40km** (singlemode)
- For use with yellobrik, Series 5000 and greenMachine product lines
- Pluggable and hot swappable
- LC connector (singlemode fiber only)
- Lead free and RoHS compliant

The OH-TX-4-XXXX-LC SDI optical transmitter is a CWDM fiber plug-in option for select LYNX Technik yellobrik Series 5000 and greenMachine products. This SFP module facilitates the conversion of an electrical SDI signal into an optical signal for transmission over fiber. 18 wavelength selections are available for CWDM applications and support for distances of up to 40km** is provided. The module supports 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.

Specifications

Parameter		Min	Typ	Max
Intrinsic Jitter (ps)	2.97 Gbit/s	-	45	80
	1.485 Gbit/s	-	45	80
	270 Mbit/s	-	45	80
Wavelengths [18 according to ITU-T G694.2]		$\lambda - 10\text{nm}$	λ	$\lambda + 10\text{nm}$
Optical Power		-4dBm	-1dBm	+2dBm
Distance			40km**	
Linear Extinction Ratio		5.0	8.0	
Operating Temperature Range		5°C	-	40°C
Power Supply Voltage		3.1 VDC	3.3 VDC	3.5VDC
Power Consumption			130 mA	230 mA
Humidity (non condensing)				90%

$\lambda = 1270/1290/1310/1330/1350/1370/1390/1410/1430/1450/1470/1490/1510/1530/1550/1570/1590/1610\text{nm}$

Mechanical

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

Country of manufacture: Taiwan



Shown with dust cap fitted

Ordering Information

EAN / UPC	Model	Description
4250479312715	OH-TX-4-1270-LC	3G SDI Fiber Transmitter CWDM - 1270nm
4250479312913	OH-TX-4-1290-LC	3G SDI Fiber Transmitter CWDM - 1290nm
4250479313118	OH-TX-4-1310-LC	3G SDI Fiber Transmitter CWDM - 1310nm
4250479313316	OH-TX-4-1330-LC	3G SDI Fiber Transmitter CWDM - 1330nm
4250479313514	OH-TX-4-1350-LC	3G SDI Fiber Transmitter CWDM - 1350nm
4250479313712	OH-TX-4-1370-LC	3G SDI Fiber Transmitter CWDM - 1370nm
4250479313910	OH-TX-4-1390-LC	3G SDI Fiber Transmitter CWDM - 1390nm
4250479314115	OH-TX-4-1410-LC	3G SDI Fiber Transmitter CWDM - 1410nm
4250479314313	OH-TX-4-1430-LC	3G SDI Fiber Transmitter CWDM - 1430nm
4250479314511	OH-TX-4-1450-LC	3G SDI Fiber Transmitter CWDM - 1450nm
4250479314719	OH-TX-4-1470-LC	3G SDI Fiber Transmitter CWDM - 1470nm
4250479314917	OH-TX-4-1490-LC	3G SDI Fiber Transmitter CWDM - 1490nm
4250479315112	OH-TX-4-1510-LC	3G SDI Fiber Transmitter CWDM - 1510nm
4250479315310	OH-TX-4-1530-LC	3G SDI Fiber Transmitter CWDM - 1530nm
4250479315518	OH-TX-4-1550-LC	3G SDI Fiber Transmitter CWDM - 1550nm
4250479315716	OH-TX-4-1570-LC	3G SDI Fiber Transmitter CWDM - 1570nm
4250479315914	OH-TX-4-1590-LC	3G SDI Fiber Transmitter CWDM - 1590nm
4250479316119	OH-TX-4-1610-LC	3G SDI Fiber Transmitter CWDM - 1610nm

** 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 that comply with 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 1.2 Specifications subject to change

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