

fiber options

OH-TX-12-XXXX Fiber SFP Data Sheet

12Gbit SDI Optical Transmitter - CWDM

- SDI multi-rate optical transmitter for 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI signals
- Support for SMPTE 2082, SMPTE 424M, SMPTE 292M
- 8 wavelength selections (1270,1290,1310,1350 and 1550,1570,1590,1610) according to ITU-T G694.2
- For use with yellobrik and greenMachine
- Pluggable and hot swappable
- LC Connector - singlemode
- Lead free and RoHS compliant

The OH-TX-12-XXXX 12G SDI optical transmitter is a CWDM fiber plug in option for select LYNX Technik products. This SFP module facilitates the conversion of an electrical SDI signal into an optical signal for transmission over a fiber link. 8 wavelength selections are currently available for CWDM applications and provide support for distances up to 10km.** The module supports 270Mbit / 1.485Gbit (1.5G) / 2.97Gbit (3G) / 5.94Gbit (6G) and 11.88Gbit (12G) SDI signals conforming to SMPTE 2082, SMPTE 424M, 292M.

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



Shown with dust cap fitted

Specifications

Parameter	Min	Typ	Max
Wavelengths [8 according to ITU-T G694.2]	$\lambda -10\text{nm}$	λ	$\lambda +10\text{nm}$
Optical Power	-3dBm	-	+3dBm
Distance	-	10km**	-
Data Rate (Mbps)	270		11880
Linear Extinction Ratio (dB)	3.5	-	-
Operating Temperature Range	5°C	-	40°C
Power Supply Voltage	3.1 VDC	3.3 VDC	3.5VDC
Power Consumption	-	135 mA	150 mA
Humidity (non condensing)	-	-	90%

$\lambda = [1270, 1290, 1310, 1330, 1550, 1570, 1590, 1610] \text{ nm}$

Mechanical

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

Country of manufacture: Taiwan

Ordering Information

EAN / UPC	Model	Description
4250479325630	OH-TX-12-1270	12G SDI Fiber Transmitter CWDM - 1270nm
4250479325647	OH-TX-12-1290	12G SDI Fiber Transmitter CWDM - 1290nm
4250479325654	OH-TX-12-1310	12G SDI Fiber Transmitter CWDM - 1310nm
4250479325661	OH-TX-12-1330	12G SDI Fiber Transmitter CWDM - 1330nm
4250479325685	OH-TX-12-1550	12G SDI Fiber Transmitter CWDM - 1550nm
4250479325692	OH-TX-12-1570	12G SDI Fiber Transmitter CWDM - 1570nm
4250479325708	OH-TX-12-1590	12G SDI Fiber Transmitter CWDM - 1590nm
4250479325715	OH-TX-12-1610	12G 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 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 1.1 Specifications subject to change

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