

# fiber options

## OH-TX-4-XXXX 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 and Series 5000 product lines
- Pluggable and hot swappable
- LC Simplex connector - singlemode
- Lead free and RoHS compliant

The OH-TX-4-XXXX SDI optical transmitter is a CWDM fiber 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. 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

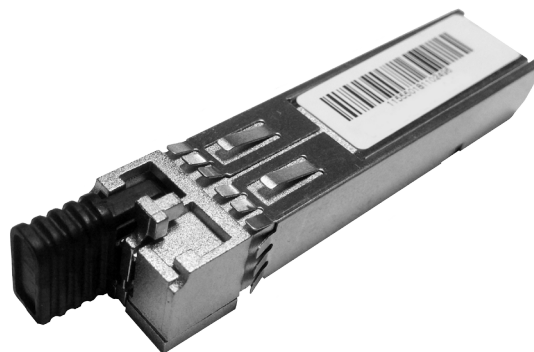
Parameter		Min	Typ	Max
Intrinsic Jitter (ps)	2.97 Gb/s	-	45	80
	1.485 Gbit/s	-	45	80
	270 Mbit/s	-	45	80
Wavelengths [ 18 according to ITU-T G694.2 ]		$\lambda - 10\text{nm}$	$\lambda$	$\lambda + 10\text{nm}$
Optical Power		-4dBm	-1dBm	+2dBm
Distance		-	40km**	-
Linear Extinction Ratio		5.0	8.0	-
Operating 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%

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

### Mechanical

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

Country of manufacture: Taiwan



Shown with dust cap fitted

### Ordering Information

EAN / UPC	Model	Description
4250479312708	OH-TX-4-1270	3G SDI Fiber Transmitter CWDM - 1270nm
4250479312906	OH-TX-4-1290	3G SDI Fiber Transmitter CWDM - 1290nm
4250479313101	OH-TX-4-1310	3G SDI Fiber Transmitter CWDM - 1310nm
4250479313309	OH-TX-4-1330	3G SDI Fiber Transmitter CWDM - 1330nm
4250479313507	OH-TX-4-1350	3G SDI Fiber Transmitter CWDM - 1350nm
4250479313705	OH-TX-4-1370	3G SDI Fiber Transmitter CWDM - 1370nm
4250479313903	OH-TX-4-1390	3G SDI Fiber Transmitter CWDM - 1390nm
4250479314108	OH-TX-4-1410	3G SDI Fiber Transmitter CWDM - 1410nm
4250479314306	OH-TX-4-1430	3G SDI Fiber Transmitter CWDM - 1430nm
4250479314504	OH-TX-4-1450	3G SDI Fiber Transmitter CWDM - 1450nm
4250479314702	OH-TX-4-1470	3G SDI Fiber Transmitter CWDM - 1470nm
4250479314900	OH-TX-4-1490	3G SDI Fiber Transmitter CWDM - 1490nm
4250479315105	OH-TX-4-1510	3G SDI Fiber Transmitter CWDM - 1510nm
4250479315303	OH-TX-4-1530	3G SDI Fiber Transmitter CWDM - 1530nm
4250479315501	OH-TX-4-1550	3G SDI Fiber Transmitter CWDM - 1550nm
4250479315709	OH-TX-4-1570	3G SDI Fiber Transmitter CWDM - 1570nm
4250479315907	OH-TX-4-1590	3G SDI Fiber Transmitter CWDM - 1590nm
4250479316102	OH-TX-4-1610	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 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 1.0 Specifications subject to change

**LYNXTechnik AG**

www.lynx-technik.com

**LYNX Technik AG**  
Brunnenweg 3  
D-64331 Weiterstadt  
Germany  
PH +49 (0) 6150 1817 0  
info@lynx-technik.com

**LYNX Technik Inc**  
26366 Ruefher Ave.  
Santa Clarita, CA 91350  
USA  
PH +1 (661) 251 8600  
infousa@lynx-technik.com

**LYNX Technik Pte Ltd**  
19 Burn Road  
#01-01 Advance Building  
Singapore, 369974  
PH +65 648 1622  
infoasia@lynx-technik.com