

### Dual Channel 3Gbit SDI Optical Transmitter - CWDM



#### Features

- Dual channel multi-rate optical transmitter for 3G, HD and SD-SDI signals
- Support for SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
- 18 wavelength (9 pair) selections according to ITU-T G694.2
- Distances up to 80km\*\* (singlemode)
- For use with yellobrik and Series 5000 product lines
- Pluggable and hot swappable
- LC Duplex connector - singlemode
- Lead free and RoHS compliant

#### Technical Specifications

TT Specifications (Per Channel)		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		+1dBm	+3dBm	+5dBm
Distance		-	80km**	-
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		-	260 mA	400 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	
Size (not including connector - typ)	57mm x 13.4mm x 12.4mm
Weight	50g
SFP Connector pinning	Proprietary
Fiber connections	LC / Duplex - singlemode

#### Description

The OH-TT-8-XXXX-XXXX-LC dual channel 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 two electrical SDI signals into optical signals for transmission over two fiber links.

9 wavelength "pairs" (18 wavelength) selections are available for CWDM applications and support distances of up to 80km\*\*. 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.

#### Ordering Information

EAN / UPC	Model	Description
4250479320659	OH-TT-8-1270-1290-LC	Dual 3G SDI Fiber Transmitter CWDM - 1270+1290nm
4250479320666	OH-TT-8-1310-1330-LC	Dual 3G SDI Fiber Transmitter CWDM - 1310+1330nm
4250479320673	OH-TT-8-1350-1370-LC	Dual 3G SDI Fiber Transmitter CWDM - 1350+1370nm
4250479320680	OH-TT-8-1390-1410-LC	Dual 3G SDI Fiber Transmitter CWDM - 1390+1410nm
4250479320697	OH-TT-8-1430-1450-LC	Dual 3G SDI Fiber Transmitter CWDM - 1430+1450nm
4250479320703	OH-TT-8-1470-1490-LC	Dual 3G SDI Fiber Transmitter CWDM - 1470+1490nm
4250479320710	OH-TT-8-1510-1530-LC	Dual 3G SDI Fiber Transmitter CWDM - 1510+1530nm
4250479320727	OH-TT-8-1550-1570-LC	Dual 3G SDI Fiber Transmitter CWDM - 1550+1570nm
4250479320734	OH-TT-8-1590-1610-LC	Dual 3G SDI Fiber Transmitter CWDM - 1590+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

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)

#### Safety Standards

