LYNXTechnik
Broadcast Television Equipment

OH-TX-4-12G-XXXX-LC

12G-SDI Simplex Fiber Transmitter 40km CWDM



Shown with dust cap fitted

Features

- SDI multi-rate optical transmitter for 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI
- Support for SMPTE 2082, SMPTE 2081, SMPTE 424M, SMPTE 292M
- 6 wavelength selections according to ITU-T G694.2
- Pluggable and hot swappable
- Simplex, LC/PC Connector, Single-mode
- Lead free and RoHS compliant

Description

The OH-TX-4-12G-XXXX-LC 12G-SDI Optical Transmitter is a CWDM fiber SFP module designed for use with selected LYNX Technik products. It converts electrical SDI signals into optical signals for transmission over fiber-optic links.

Available in 6 wavelength options for CWDM applications, as detailed in the table below, the module supports transmission distances of up to 40 km.** It is compatible with SDI signal rates of 270 Mbit/s, 1.485 Gbit/s (1.5G), 2.97 Gbit/s (3G), 5.94 Gbit/s (6G) and 11.88 Gbit/s (12G), in accordance with SMPTE 2082, SMPTE 424M and SMPTE 292M standards.

The SFP module installs into a dedicated socket (cage) within the compatible LYNX Technik product, allowing for easy installation or upgrade. The module is also hot-swappable, enabling replacement without powering down the host equipment.

Technical Specifications

TX Specifications	Min	Typ	Max
Wavelength	λ -10 nm	λ	λ +10 nm
Optical Power	-0 dBm	-	+5 dBm
Distance	-	40 km**	-
Data rate (Mbps)	270		11880
Linear Extnction Ratio	3.5 dB		

λ = 1270/1290/1310/1330/1350/1370 nm

Mechanical	
Size (not including connector - typ)	57 mm x 13.4 mm x 12.4 mm
Weight	50 g
SFP Connector pinning	MSA
Fiber connections	LC / Simplex - Single-mode
Operating Temperature Range	5 - 70°C
Power Supply Voltage	3.3 V DC
Power Consumption	135 - 150 mA
Humidity (non condensing)	90%

Ordering Information

EAN / UPC	Model	Description
4250479329522	OH-TX-4-12G-1270-LC	40km 12G-SDI Fiber Transmitter CWDM - 1270nm
4250479329539	OH-TX-4-12G-1290-LC	40km 12G-SDI Fiber Transmitter CWDM - 1290nm
4250479329546	OH-TX-4-12G-1310-LC	40km 12G-SDI Fiber Transmitter CWDM - 1310nm
4250479329553	OH-TX-4-12G-1330-LC	40km 12G-SDI Fiber Transmitter CWDM - 1330nm
4250479329560	OH-TX-4-12G-1350-LC	40km 12G-SDI Fiber Transmitter CWDM - 1350nm
4250479329577	OH-TX-4-12G-1370-LC	40km 12G-SDI Fiber Transmitter CWDM - 1370nm

Safety Standards

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).

** 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.

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