10G DWDM SFP+ 80km LC – CHxx

Optical Transceiver, SFP,10G,DWDM,80KM,LC

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Variants

CH 57 CH 56 CH 55 CH 25 CH 22 CH 23 CH 54 CH 27 CH 45 CH 52 CH 31 CH 51 CH 36 CH 35 CH 38 CH 50 CH 34 CH 28 CH 48 CH 46 CH 54 CH 40 CH 49 CH 47 CH 29 CH 39 CH 37 CH 30 CH 32 CH 33

Details

10G LONG-DISTANCE DWDM

80KM • 100GHz DWDM • C-Band • Duplex LC • EML + APD • DDM

Product Overview

The **SFP+ 10G DWDM 80KM DDM** is a high-performance optical transceiver designed for long-distance **10 Gigabit transmission over single-mode fiber** in DWDM networks.

It supports **9.95 to 11.3Gb/s** data rates and uses a **DWDM EML transmitter with APD photodetector** for stable transmission up to **80KM**. The module features a hot-pluggable SFP+ design, Duplex LC interface and SFF-8472 digital diagnostics monitoring.

DATA RATE

10G

DISTANCE

80 KM

DWDM GRID

100 GHz

CONNECTOR

Duplex LC

Key Features

? 9.95 to 11.3Gb/s bit rate support

? Up to 80KM over single-mode fiber

? 100GHz ITU Grid, C-Band DWDM

? DWDM EML transmitter

? High-sensitivity APD photodetector

? Duplex LC optical interface

? SFF-8472 DDM monitoring

? Hot-pluggable SFP+ design

? Low power consumption 1.5W

? RoHS compliant

Technical Specifications

Parameter	Specification
Product Type	SFP+ 10G DWDM Optical Transceiver
Data Rate	9.95 to 11.3 Gb/s
Transmission Distance	**Up to 80KM**
Fiber Type	Single-Mode Fiber (SMF)
DWDM Grid	100GHz ITU Grid, C-Band
Optical Connector	Duplex LC
Transmitter	DWDM EML
Receiver	APD Photodetector
Digital Diagnostics	DDM / SFF-8472
Supply Voltage	+3.3V
Power Consumption	1.5W
Operating Temperature	0°C to +70°C
Compliance	RoHS Compliant

Optical Parameters

Parameter	Specification

Center Wavelength	100GHz ITU Grid, C-Band
Average Optical Power	Up to +5 dBm
Laser Off Power	-30 dBm
Extinction Ratio	? 3.0 dB
Relative Intensity Noise	-128 dB/Hz
Optical Return Loss Tolerance	20 dB
Receiver Wavelength Range	1480 to 1565 nm
Receiver Overload	-7 dBm
LOS Assert	-40 dBm
LOS De-Assert	-24 dBm
LOS Hysteresis	0.5 dB

Electrical Characteristics

Parameter	Specification
Supply Voltage	3.135 to 3.465 V
Supply Current	450 mA Max.
Power Consumption	1.5W Max.
Input Differential Impedance	100 ?

Parameter	Specification
Differential Input Voltage Swing	180 to 700 mV
RX Output Differential Voltage	300 to 850 mV

Environmental & Maximum Ratings

Parameter	Min.	Max.	Unit
Storage Temperature	-40	+85	°C
Operating Temperature	0	+70	°C
Maximum Supply Voltage	-0.5	4	V
Relative Humidity	0	85	%

Digital Diagnostics Monitoring (DDM)

SFF-8472 Digital Monitoring

The built-in DDM function allows compatible network equipment to monitor important transceiver operating information through the 2-wire management interface.

Applications

- 10G DWDM Networks
- 10GBASE-ZR / ZW

- ISP Backbone
- Metro Networks
- SONET OC-192 / SDH
- 10G Fibre Channel
- Data Center Interconnect
- Long-Haul Fiber Links

DWDM Channel Selection

This transceiver operates on the **100GHz ITU-T DWDM C-Band grid**. Select the correct DWDM channel / wavelength according to your MUX / DEMUX configuration before installation.

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