LambdaDriver® – Tunable Dispersion Compensation Module

(EM800 - DCMT14)

EM800-DCMT14

Features

- Hot swappable
- High resolution
- Low insertion loss
- Low power consumption
- Full ITU-T G.694.1 std. grid C-band coverage

Applications

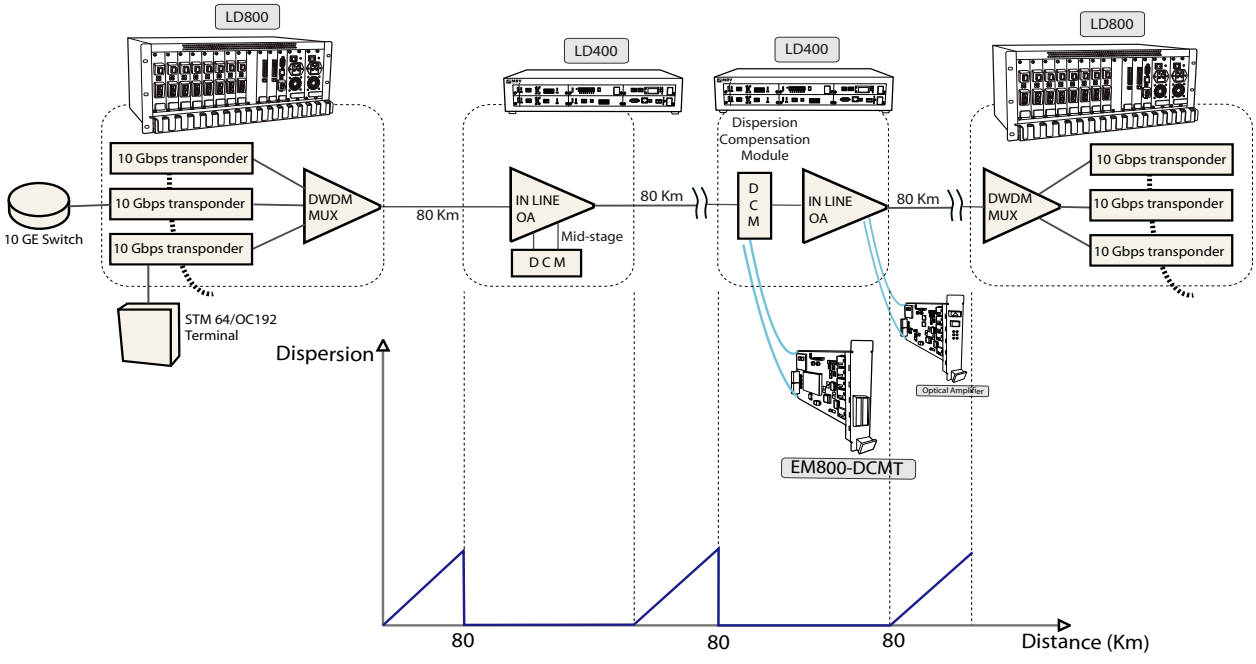
- Dispersion compensation in long-haul 10Gbps WDM networks

Overview

Dispersion Compensation Modules (DCMs) are building blocks of the LambdaDriver Optical Transport System and serve at optical communication nodes to correct for pulse spreading phenomena known as Chromatic Dispersion that reduces the maximal transmission distance of data in optical fibers

Use of remotely manageable and tunable DCMs allows for flexible and easy compensation adjustment in a live network thus getting optimal signal quality and BER figures of the Optical Transport paths.

The DCM excels in its wide dispersion compensation range, low power consumption and low insertion loss across the entire C-band for data rates up to 10Gbps.
The DCM has a Chromatic Dispersion compensation range of - 1400 to +1400 ps/nm.



Long haul transport of 10 Gbps protocols

Environmental	
Operating Temperature	- 5 to 50 °C (23 to 122 °F)
Storage Temperature	-10 to 70 °C (14 to 158 °F)
Relative Humidity	90% maximum, non-condensing
Dimensions (W x H x D)	EM800: W: 26.93 x 130.7 x 227.5 mm 1.06 x 5.145 x 8.956 In
Weight	EM800: 0.550 kg 1.21 lb
MTBF @25°C/77°F	624118 hr
Connector	SC/APC INPUT ; SC/APC OUPUT
Power consumption (max)	8.0 Watt

Technical Specifications	
Regulatory Compliance	FCC Part 15 (Class A); EMC Directive: Emission (Class A) and Immunity; RoHS2 Directive, REACH SVHC, WEEE Directive.
Operating wavelength range	1527.216 to 1565.496 nm
Operating speed	10 Gbps
WDM grid	ITU - T - G.694.1 grid with100 GHz spacing offsettable by 50 GHz
Insertion Loss (max)	3dB
Dispersion compensation range	+/- 1400 ps/nm
Tuning resolution	100 ps/nm
Tuning settling time (max)	30 s
Maximum input power	27 dBm

Order Info

Product	Description
EM800-DCMT14	Tunable DCM, short-slot size, +/- 1400ps/nm chromatic dispersion range, up to 10 Gbps