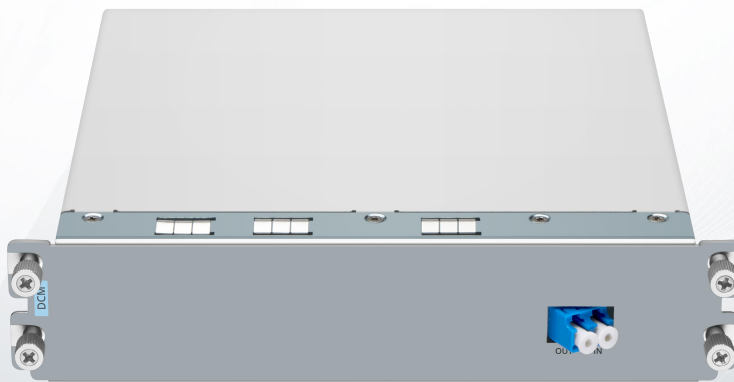


40KM Passive Dispersion Compensation Module, LC/UPC

Pluggable Module for M6200 Series Multi-Service Transport System



Description

DCM (Dispersion Compensation Modules) provides fixed chromatic dispersion compensation for high-speed metro core, regional, and extended long haul DWDM networks, and it can be used to compensate dispersion on standard single-mode optical fiber (SMF) across the entire C-Band.

It is designed for DWDM C-band high-speed extended haul DWDM networks. When combined with transponders and amplifiers, the DCM provides a simple, reliable, and cost-effective DWDM transport solution.

Features

- 100% slope compensation of G.652 fiber in C-band
- Low insertion loss
- Low polarization mode dispersion
- Wide band dispersion compensation
- Compensation up to 40km
- Completely passive—no powering utilized
- Highly integrated with M6200 series management platform

Application

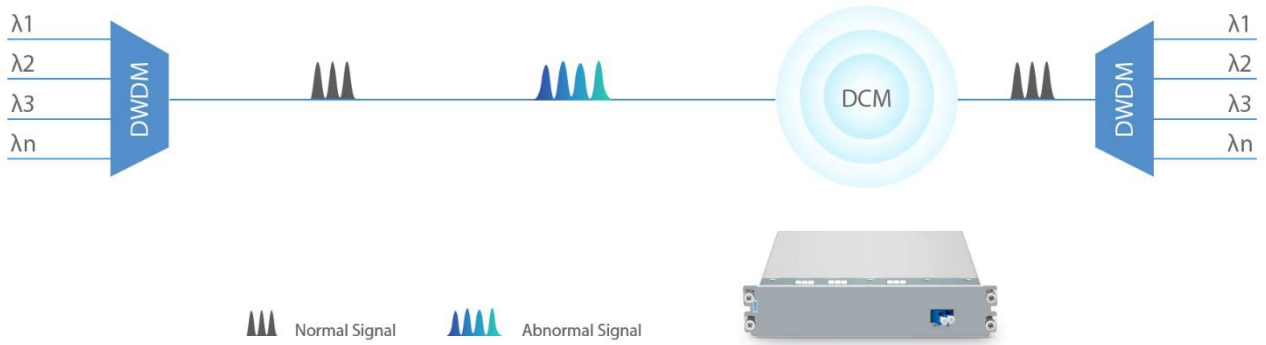
- Metro and long-haul DWDM networks
- SDH transmission system
- CATV system
- Dispersion accommodation

Product Specifications

Parameter	Description
Compensated Length	40km
Wavelength	1525nm~1565nm
Dispersion Compensator @1545nm	-670±20 ps/nm
Insertion Loss	≤4.0dB
Relative Dispersion Slop @1545nm	0.0036±20%nm ⁻¹
Brillouin Scattering Threshold	≥6dBm
Nonlinear System (n²/Aeff)	≤1.4*10 ⁻⁹ W ⁻¹
Effective Area (Aeff)	≥20um ²
Polarization Dependent Loss	≤0.1dB
Polarization Mode Dispersion	≤0.3ps
Connector Type	LC/UPC
Housing	Pluggable module (Occupies 2-slot in M6200 series managed chassis)
Relative Humidity	<85%
Operating Temperature	-5 to 70° C
Storage Temperature	-40 to 85° C

Applications

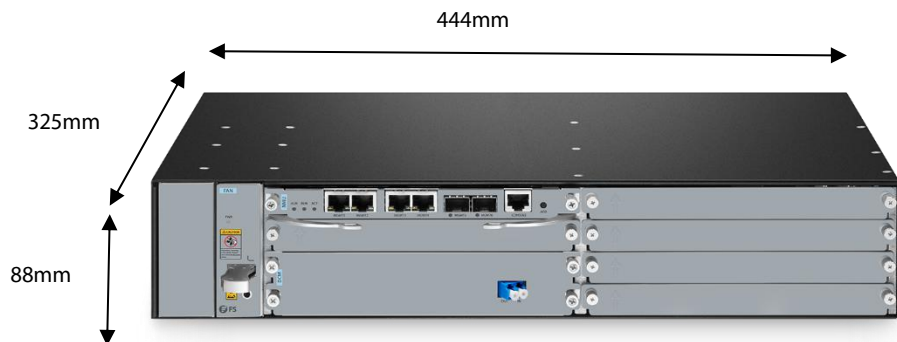
DCM is needed to fix the form of optical signals that are deformed by chromatic dispersion in long-haul transmission. It can effectively neutralize the fiber dispersion before the signal reaches the receiver, which provides a simple, reliable, and cost-effective long-haul transport solution, making signals go further without regeneration.



Matching Chassis

M6200 series 40km DCM pluggable module occupies 2-slot in M6200 series managed chassis.

- Width: 444mm (17.48")
- Height: 88mm (3.46")
- Depth: 325mm (12.80")



Ordering Information

ID	Description
#107366	20dBm Output Optical Booster Pluggable Module, 16dB Gain, LC/UPC
#107367	25dB Gain Optical Pre-Amplifier Pluggable Module, 16dBm Output, LC/UPC
#107368	1+1 Optical Line Protection Switch (OLP), LC/UPC
#107369	1x2 Single Fiber DWDM Red/Blue C Band Filter, Pluggable Module, LC/UPC
#107370	40KM DCF-based Passive Dispersion Compensation Module, LC/UPC
#107365	5 Channels Multi-Rate WDM Converter (Transponder), 10 SFP/SFP+ Slots, 100Mbps to 11.1Gbps Rate
#107373	SFP Variable Optical Attenuator Module for M6200 Series DWDM EDFA
#109705	40 Channels C21-C60 Dual Fiber DWDM Mux Demux with Monitor Port, Pluggable Module, LC/UPC
#107371	M6200 Series 2U Managed Chassis Unloaded, Supports up to 7x EDFA/OEO/OLP Module with Accessories
#111052	M6200 Series 5U Managed Chassis Unloaded, Supports up to 15x MUX/OEO/EDFA/DCM/OLP Module with Accessories

*Standard products are listed above. Customized specifications are available upon request.



 <https://www.fs.com>



All statements, technical information, and recommendations related to the products here are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact FS for more information.