

# FDCM Series

## *Dispersion Compensation Module*



- Chromatic dispersion compensation device for DWDM networks
- Compensation up to 140Km
- Covers C-Band DWDM channels
- Suitable for regional and long haul DWDM networks
- Metro DWDM networks
- Fixed attenuation and latency for all models
- Stand-alone device (1/2x19"/1RU case enclosure)
- Operates in conjunction with a booster's midstage

### Product Overview

The growing use of high-bandwidth services necessitates driving the need for increased optical network capacity. In optical digital network, the dispersion factor limits the maximum transmission distance at a given rate and causes increased BER.

Chromatic dispersion is considered a distance limiting factor especially in DWDM networks using multiple 10Gbps channels.

FibroLAN Dispersion Compensation modules compensate for the dispersion and dispersion slope at the C-Band for standard single mode fiber.

This unit cancels out the fiber's accumulated positive dispersion, increasing transmission range and decreasing BER of optical links by enhancing the waveforms of optical signals.

The FibroLAN DCM series contains a special fiber that has a very high negative dispersion equivalent to the specified range. Dispersion range reaches up to 140Km (more can be delivered upon request).

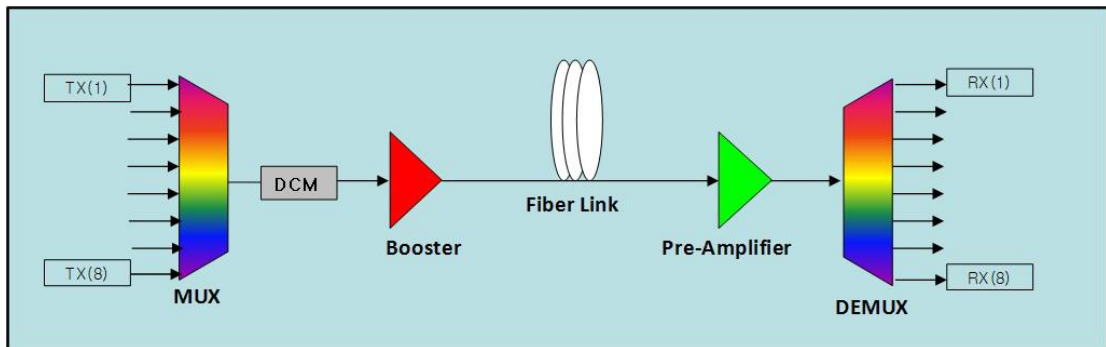
The FDCM unit operates over a wide wavelength range of the full C-Band, with all models sharing the same attenuation and latency regardless of range.

**DSFDCMR0715**

## Specifications

- Channel spacing: 50 and 100 GHz
- Operational bandwidth: > 25 GHz
- Slope matched to G.652 or G.655 fibers
- Insertion loss: ≤ 3.0 Db
- Latency : < 25ns
- LC connectors
- Operating Temperature : -5°C ÷ +70°C (23°F ÷ 158°F)
- Storage Temperature: : -40°C ÷ +85°C (-40°F ÷ 185°F)

## Typical Application



## Ordering Information

Model	Part #	Description
FDCM20	2910	DDWDM Dispersion Compensation Module, 40 channels, 20km
FDCM40	2911	DWDM Dispersion Compensation Module, 40 channels, 40km
FDCM60	2912	DWDM Dispersion Compensation Module, 40 channels, 60km
FDCM80	2913	DWDM Dispersion Compensation Module, 40 channels, 80km
FDCM100	2914	DWDM Dispersion Compensation Module, 40 channels, 100km
FDCM120	2915	DWDM Dispersion Compensation Module, 40 channels, 120km
FDCM140	2916	DWDM Dispersion Compensation Module, 40 channels, 140km

*Specifications are subject to change w/o prior notice*

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