



DCM | Dispersion Compensation Module



QAMnet DCM (Dispersion Compensation Modules) consist of a rack mount unit with an internal spool of certain length of dispersion compensating fiber. DCM provides an ideal solution for overcoming the effects of Chromatic Dispersion in conventional single mode fiber. Specifically, DCM can also be used in the HFC network for reducing CSO error, caused by the non-linear dispersion effect of the fiber.

Along with the use of EDFA, DCM can extend transmission distance in fiber optics networks up to 150km. QAMnet's DCM is a passive device, requiring no power and maintenance. It is available for 40km, 60km and 80km versions. For example, DCM-60 can extend the operation range of QAMnet's EMLT-1550-ER transmitter, with range of 75km, by additional distance of 60km.

Features

- Passive device require no power source
- Improving CSO and CTB value
- Broad operating wavelength range
- Available in different fiber compensation length

▪ Ordering Information

- DCM-xx
- xx: 40, 60, 80
- 40: to compensate 40km of transmission
- 60: to compensate 60km of transmission
- 80: to compensate 80km of transmission



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Technical Specifications

Designed for Optical Fiber	SMF-28, Single Mode Fiber
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Model Number	DCM-40
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Chromatic Dispersion Value	-680±10 ps/nm , for 40km distance
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Insertion Loss	3.5 ±0.5 dB
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Model Number	DCM-60
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Chromatic Dispersion Value	-1020±10 ps/nm , for 60km distance
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Insertion Loss	5.0 ±0.5 dB
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Model Number	DCM-80
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Chromatic Dispersion Value	-1360±10 ps/nm , for 80km distance
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Insertion Loss	6.5 ±0.5 dB
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Mechanical Specifications

Housing Type	Rack mount, Aluminum
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Connectors	FC/APC or customer specified
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Housing Dimensions	13.75in (L) x 19in (W) x 1.75in (H)
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