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Data Sheet

August 1, 2026

INFINERA/CORNING

Infinera DCM1F-300P Dispersion Compensating Module Corning

The Infinera DCM1F-300P is a dispersion compensating module engineered to counteract chromatic dispersion in long-haul optical fiber networks. Built on Corning optical fiber technology, this full-width DCM delivers +300 ps/nm positive dispersion compensation across the C-band, restoring signal integrity and extending transmission reach in high-speed optical transport systems. Compatibility & Integration The DCM1F-300P integrates with Infinera transport systems including DTN and ATN hardware platforms. LC connector compatibility aligns with standard fiber optic infrastructure. The module operates within defined environmental parameters suitable for data center and field deployment scenarios. Aumictech offers NIST-traceable calibration and repair for the Infinera/Corning DCM1F-300P. Calibration covers attenuation accuracy at 5 or more set values across the full range (0 to rated maximum



MODEL

**Infinera/Corning
DCM1F-300P**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DCM1F-300P

LISTING

<https://aumictechlabs.com/products/dcm1f-300p-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Infinera DCM1F-300P is a dispersion compensating module engineered to counteract chromatic dispersion in long-haul optical fiber networks. Built on Corning optical fiber technology, this full-width DCM delivers +300 ps/nm positive dispersion compensation across the C-band,

restoring signal integrity and extending transmission reach in high-speed optical transport systems.

Technical Specifications

Product Name: Infinera DCM1F-300P-A

Type: Dispersion Compensating Module (DCM)

Dispersion Compensation Value: +300 ps/nm

Dispersion Type: Positive dispersion

Wavelength Range: C-band (1525 nm to 1565 nm)

Optical Fiber: Corning optical fiber

Module Configuration: Full-width

Compliance: DHHS Rules 21 CFR Subchapter J, Section 1040.10 (Class A product)

Key Features

- Compensates for signal-spreading effects caused by chromatic dispersion in optical fiber
- Full-width module design integrates into standard chassis architectures
- Designed for C-band wavelength operation typical of modern long-haul systems
- Corning fiber construction ensures reliable performance and signal quality

Typical Applications

- Long-haul optical transport systems requiring dispersion mitigation
- High-speed digital signal transmission over extended fiber distances
- Integration into optical networks where chromatic dispersion limits link reach

Compatibility & Integration

The DCM1F-300P integrates with Infinera transport systems including DTN and ATN hardware platforms. LC connector compatibility aligns with standard fiber optic infrastructure. The module operates within defined environmental parameters suitable for data center and field deployment scenarios.

Features & description

From manufacturer datasheet

Features

- Full-width DCM form factor for DMC1-B
- Nominal dispersion +300 ps/nm (positive)
- Passive module – no electrical power or management interface on the DCM/DMC
- IN / OUT fiber ports with readable orientation marking
- Compatible with Infinera Dispersion Management Chassis DMC1-B
- Related part numbers seen in field units: module P/N class 130-0029-001; chassis mounting kit 120-0096-001

DCM1F300P Characteristics / Specifications

PARAMETER	VALUE
Model	DCM1F-300P / DCM1F-300P-A
Manufacturer	Infinera (DCM fiber technology Corning class)
Instrument Type	Passive full-width dispersion compensating module
Dispersion	+300 ps/nm (positive)
Form Factor	Full-width DCM1F
Host Chassis	DMC1-B Dispersion Management Chassis
Chassis Capacity	one full-width DCM or two half-width DCMs
Chassis Power	none (passive)
Rack Mounting	19-inch, ETSI (600 mm), or 23-inch with appropriate mounting ears Related DCM Family Examples (Infinera DMC catalog)
Positive	DCM1H-100P-A (+100 ps/nm half-width); DCM1F-200P-A (+200); DCM1F-300P-A (+300)
Related part numbers seen in field units	module P/N class 130-0029-001; chassis mounting kit 120-0096-001

DCM1F300P Specifications

PARAMETER	VALUE
Key Features	- Full-width DCM form factor for DMC1-B
Technical Specifications	Model: DCM1F-300P / DCM1F-300P-A
Related DCM Family Examples (Infinera DMC catalog)	Positive: DCM1H-100P-A (+100 ps/nm half-width); DCM1F-200P-A (+200); DCM1F-300P-A (+300)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	DCM1F-300P / DCM1F-300P-A
Manufacturer	Infinera (DCM fiber technology Corning class)
Instrument Type	Passive full-width dispersion compensating module
Dispersion	+300 ps/nm (positive)
Form Factor	Full-width DCM1F
Host Chassis	DMC1-B Dispersion Management Chassis
Chassis Capacity	one full-width DCM or two half-width DCMs
Chassis Power	none (passive)
Rack Mounting	19-inch, ETSI (600 mm), or 23-inch with appropriate mounting ears

Related DCM Family Examples (Infinera DMC catalog)

Positive: DCM1H-100P-A (+100 ps/nm half-width); DCM1F-200P-A (+200); DCM1F-300P-A (+300)

Negative half-width examples: DCM1H-100N through DCM1H-1300N (-100 to -1300 ps/nm)

Negative full-width examples: DCM1F-1500N, DCM1F-1700N-LL, DCM1F-1900N-LL

C-Band DCM Context (Corning PureForm class literature)

Passband optimized across approximately 1525 to 1565 nm on G.652 single-mode fiber

Center wavelength typically near 1545 nm for standard SMF DCM modules

Standard Operating Conditions

Clean connectors before mating. Observe bend-radius and fiber handling limits. Verify span design for the signed dispersion (+300 vs negative DCM types).

Operational Notes

"Corning" in catalog titles refers to the DCM fiber technology lineage, not a separate Corning model number on the faceplate. Confirm DCM1F-300P vs half-width DCM1H parts. The DMC chassis may ship separately from the DCM module.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.