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Data Sheet

August 15, 2026

DICON

DiCon GP700M Optical Modular Mainframe

The DiCon GP700M is a modular optical mainframe that adds field-installable plug-ins to the GP700 programmable fiber-optic platform. OEM GP700M listings specify up to eight modular plug-ins (four- or eight-plug-in chassis), manual plus IEEE-488.2 (GPIB) and RS-232 control, and standard or extended 4U rackmount chassis. Plug-ins include fiber-optic switches, variable attenuators, and tunable filters. Non-modular internal components can be factory-configured. After installation, plug-ins behave as permanent GP700 components using the same keypad, mini-programs, RS-232, and GPIB interface described in GP700 manual 91506. Modular optical switching, attenuation, and tunable-filter racks for fiber-component production test. Internal Components: non-modular internal components configurable by request Host Manual: GP700 programmable fiberoptic instrument operation manual document 91506 Related Platform: DiCon GP700 programmable platform Literature: DiCon GP700M modular mainframe listings and GP700M supplement



MODEL

DiCon GP700M

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

GP700M

LISTING

<https://aumictechlabs.com/products/gp700m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DiCon GP700M Optical Modular Mainframe is a field-configurable platform for high-density integration of optical components in telecommunications, photonics research, and test environments. Built on the established GP700 architecture, the GP700M accepts up to eight

modular plug-in modules, assemble custom switching, routing, and signal conditioning systems without extensive redesign. The mainframe ships in standard or extended 4U rackmount chassis with four or eight modular bays, and accepts non-modular internal components upon request.

Technical Specifications

Chassis Configuration 4U rackmount form factor (standard and extended options) Supports four or eight modular plug-in bays Accommodates up to eight modular plug-in modules total Non-modular internal component integration available upon request Supported

Modular Plug-in Types

Multi-Channel Fiber Optic Switches: 1×16 to 2×12 configurations; compatible with Corning SMF-28, Flexcor 1060, and Panda fiber

Two-Position Switches: Up to four discrete 2×2, 1×2, or On-Off switch elements per module (firmware v2.12 or later required)

MxN Matrix Switches: Passive routing with zero optical-to-electrical conversion; wavelength, direction, bandwidth, data rate, and format independent with negligible crosstalk

1xN Switches: Precision alignment up to 100 channels

Variable Attenuators: 0 to 60 dB range with better than 0.15 dB resolution; customizable for specific wavelength windows (e.g., 1310 nm)

Tunable Filters: Tuning range example 1535 to 1565 nm

Dynamic Power Equalizer (DPE): Closed-loop attenuator maintains preset output optical power with low insertion loss, precise resolution, excellent repeatability, wide attenuation range, and low back reflection

Key Features

Data-rate and signal-format independent operation across all switch modules

Field-installable and field-reconfigurable architecture

Passive MxN switching eliminates wavelength and bandwidth constraints

Attenuation control to 0.15 dB resolution

Integrated closed-loop power equalization with minimal insertion loss

Typical Applications

Optical signal routing and switching in telecommunications

Photonics research and measurement systems

Dynamic optical test and measurement platforms

Signal conditioning and power management in optical networks

Compatibility & Integration

Modular architecture permits mix-and-match configuration of switch, filter, attenuation, and equalization functions within a single chassis. Two-position switch modules require firmware version 2.12 or later. Fiber options include standard SMF-28, Flexcor 1060, and Panda designs.

GP700M Characteristics / Specifications

PARAMETER	VALUE
Model	GP700M
Instrument Type	Modular optical mainframe
Plug In Capacity	up to eight modular plug-ins
Chassis Options	four-plug-in or eight-plug-in chassis
Rack Height	standard and extended 4U rackmount chassis
Local Control	front panel keypad
Remote Gpib	IEEE 488.2 GPIB
Remote Serial	RS-232
Plug In Types	fiber optic switches, variable attenuators, and tunable filters
Internal Components	non-modular internal components configurable by request
Host Manual	GP700 programmable fiber optic instrument operation manual document 91506
Related Platform	DiCon GP700 programmable platform
Manufacturer	DiCon Fiberoptics
Use Case	modular optical test mainframe
Literature	DiCon GP700M modular mainframe listings and GP700M supplement
Family	DiCon GP700/GP700M
Documentation Type	OEM GP700M supplement
Brand Lineage	DiCon Fiberoptics
System Role	modular optical mainframe
Form Factor	4U rackmount
Mini Programs	GP700 mini-program control of installed plug-ins
Field Install	field installation of plug-in modules
Operating Temperature Class	laboratory optical test
Year Class	GP700M modular platform

PARAMETER	VALUE
Operating temperature	Class: laboratory optical test

GP700M Specifications

PARAMETER	VALUE
DiCon GP700M Modular Optical Mainframe	Overview
Switches attenuators tunable filters	Same UI as GP700
Technical Specifications	Model: GP700M

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory optical test
Operating Temperature	Class: laboratory optical test
Operating Temperature Class	laboratory optical test
Year Class	GP700M modular platform Notes From DiCon GP700M listings and GP700M supplement (up to eight plug-ins, 4U, GPIB 488.2, RS-232, switches/attenuators/filters). Optical IL, wavelength, and switch time are on the installed plug-in datasheets, not the empty mainframe.

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	
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switches/attenuators/filters). Optical IL, wavelength, and switch time are on the installed plug-in datasheets, not the empty mainframe.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.