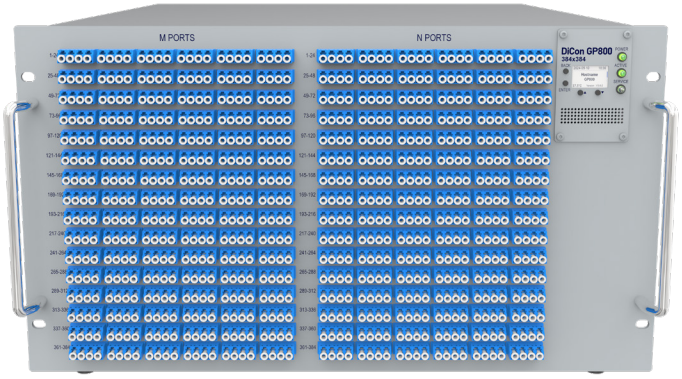
DiCon Fiberoptics, Inc.

MEMS 384X384 OPTICAL SWITCHING SYSTEM

GP800 Model, Single Mode Fiber



DiCon's **GP800 384x384 Optical Switching System** is an all-optical non-blocking cross-connect switch. This rack-mount device is designed with DiCon's proprietary 3D MEMS mirror technology and delivers industry-leading optical performance. The unit works without any position sensor or feedback loop, and the optical signals can pass through the equipment without any observable dithering artifacts. The **GP800 System** can switch repeatedly with great accuracy and maintain long-term connectivity with superior stability even when there is no optical signal in the fiber.

The **GP800 System** comes with multiple control interfaces for users to choose from and there are many options to customize the product, including adding other optical components, to meet unique requirements.

- High-density non-blocking Matrix Switches
- Interfaces - Web GUI, SSH, RS232, REST API, Telnet
- Advanced WebGUI for port partitions
- Low insertion loss - 1.2dB typical (excluding connector loss)
- Fast switching - concurrent switching < 25 ms
- Lifetime > 1 billion switch cycles
- No position sensor nor feedback-loop used
- Works even when there is no light in the fiber
- Excellent stability with no observable dithering artifacts
- Low power consumption
- Proven MEMS platform - commercial deployment since 2001
- Low MEMS drive voltage - simple and reliable electronics
- Intelligent hardware - field serviceable electronics

ORDERING INFORMATION

GP800 - □/□ - SX - □ - 9 - □ - □ - N - □

Chassis Type

6U	6U
7U	7U
8U	8U
9U	9U
12U	12U

**Please consult DiCon*

Chassis Depth

22	22"
30	30"
35	35"
40	40"

**Please consult DiCon*

Product Type

SX	MEMS Matrix Switch

Configuration

T384x384	384x384
TMxN	MxN (M, N≤384)

Fiber Type

9	9/125 µm SMF

**Other fiber options available upon request*

Test Wavelength

O	1310 nm
E	1410 nm
S	1490 nm
C	1550 nm
L	1590 nm
U	1650 nm

**Use "/" to add multiple wavelengths. E.g., O/C or O/C/L*

Connector Type

FC	FC/UPC
FC/APC	FC/APC
LC	LC/UPC
LC/APC	LC/APC
RFC/APC	FC/APC on Removable Panel
RLC	LC/UPC on Removable Panel
RLC/APC	LC/APC on Removable Panel

**Other connector types available upon request*

Connector Key Orientation

N	None

Connector Location

F	Front
R	Rear

TAA COMPLIANT

DiCon® FIBEROPTICS

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OPTICAL SPECIFICATIONS[1]

Wavelength Range	1260 to 1675 nm
Insertion Loss[2]	< 2.1 dB
Loss Repeatability[3]	+/- 0.03 dB
Connection Stability[4,5]	+/- 0.03 dB
PDL[5]	< 0.1 dB
WDL[5,6]	< 0.3 dB
Crosstalk[5]	< -60 dB
Back Reflection	< -50 dB
Optical Transition Time[5,7]	< 25 ms
Switch Lifetime	> 1 Billion Cycles
Input Power Range	Dark to +27 dBm

1. Measured separately for each Test Wavelength at room temperature
2. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7.
3. Over 100 cycles
4. 1 Hz sampling rate for 15 min
5. Met by design, not measured
6. WDL is defined within Test Wavelength ±20 nm
7. Optical transition time for all ports switching concurrently, not including command processing overhead

ELECTRICAL SPECIFICATIONS

Power Supply	100-240 VAC, 50/60 Hz
Connectors	RJ45 (Ethernet) DB9 (RS232) USB-C (Service)
Control Interface	Web GUI, SSH, RS232, REST API, Telnet, gNMI

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 50°C, < 85% RH
Storage Temperature	-40 to 70°C, < 40% RH

MECHANICAL SPECIFICATIONS

Chassis Width	483 mm (19”)		
Chassis Depth	559 mm (22”)		
	762 mm (30”)		
	889 mm (35”)		
	1016 mm (40”)		
Chassis Height	FC	Front Panel	12U
		Back Panel	12U
	LC	Front Panel	6U
		Back Panel	7U
	RLC	Front Panel	8U
		Back Panel	9U