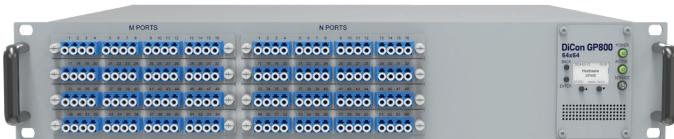


MEMS 64X64 OPTICAL SWITCHING SYSTEM

GP800 Model, Multimode Fiber



DiCon's **GP800 64x64 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 - 0.8dB 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 - - MX - - 50 - - - N -

Chassis Type

2U 2U
3U 3U
4U 4U
5U 5U

*Please consult DiCon

Product Type

MX MEMS Matrix Switch

Configuration

T64x64 64x64
TMxN MxN (M, N≤64)

Fiber Type

50 50 µm

*Other fiber options available upon request

Test Wavelength

850 850 nm
O 1310 nm
C 1550 nm
850/O 850/1310 nm
O/C 1310/1550 nm

*Other wavelength options are available upon request

Connector Type

FC FC/UPC
FC/APC FC/APC
SC SC/UPC
SC/APC SC/APC
LC LC/UPC
LC/APC LC/APC
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

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OPTICAL SPECIFICATIONS^{1,2,3}

Wavelength Range	850 / 1310 / 1550 nm
Insertion Loss	< 1.6 dB
Loss Repeatability ⁴	+/- 0.03 dB
Connection Stability ^{5,6}	+/- 0.03 dB
Crosstalk ⁶	< -60 dB
Back Reflection	< -30 dB
Optical Transition Time ^{6,7}	< 25 ms
Switch Lifetime ⁶	> 1 Billion Cycles
Input Power Range ⁶	Dark to +27 dBm

1. Measured separately for each Test Wavelength at room temperature
2. Tested with Encircled flux compliant light source
3. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
4. Over 100 cycles
5. 1 Hz sampling rate for 15 min
6. Met by design, not measured
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	435 mm (17")
Chassis Height	3U/4U (Front/Back, FC) 3U/4U (Front/Back, SC) 2U/2U (Front/Back, LC) 2U/2U (Front/Back, RLC)