MEMS 16X16 OPTICAL SWITCHING SYSTEM

GP800 Model, Multimode Fiber

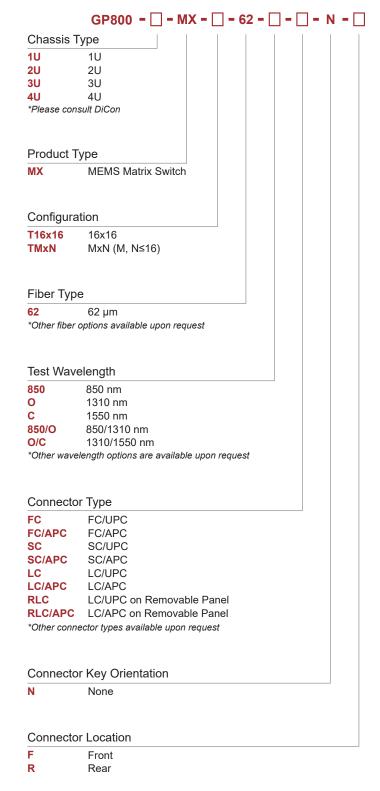


DiCon's **GP800 16x16 Optical Switching System** is an all-optical non-blocking cross-connect switch. This rack-mount device is designed with DiCon's proprietary 3D MEMS mirror technology and delivers industry-leading optical performance. The unit works without any position sensor or feedback loop, and 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





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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	< -25 dB
Optical Transition Time ^{6,7}	< 25 ms
Switch Lifetime ⁶	> 1 Billion Cycles
Input Power Range ⁶	Dark to +27 dBm

- All specifications are measured separately at room temperature for each Test
 Wavelength
- 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

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	1U/2U (Front/Back, FC) 1U/2U (Front/Back, SC) 1U/1U (Front/Back, LC) 1U/1U (Front/Back, RLC)

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