MEMS 24X24 OPTICAL SWITCHING SYSTEM

GP800 Model, Polarization Maintaining Fiber

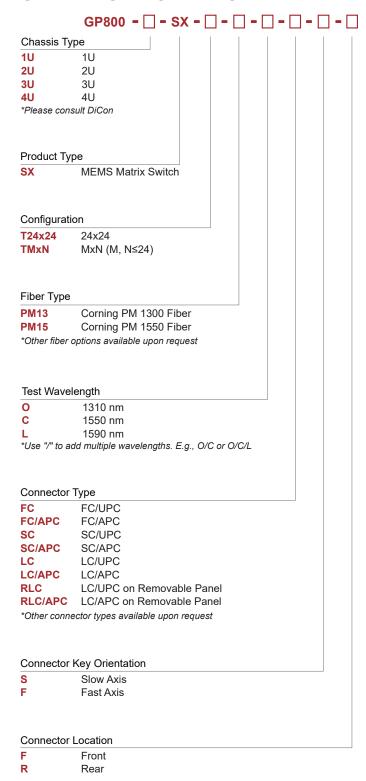


DiCon's **GP800 24x24 Optical Switching System** is an all-optical non-blocking cross-connect switch. This rack-mount device is designed with DiCon's proprietary 3D MEMS mirror technology and delivers industry-leading optical performance. The unit works without any position sensor or feedback loop, and 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
- · Powerful and intuitive user access
- · Low insertion 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 SPECIFICATIONS¹

Wavelength Range	1260 to 1675 nm
Insertion Loss ²	< 1.0 dB
Loss Repeatability ³	+/- 0.03 dB
Connection Stability ^{4,5}	+/- 0.03 dB
Polarization Extinction Ratio (PER) ⁶	> 18 dB
WDL ^{5,7}	< 0.3 dB
Crosstalk ⁵	< -60 dB
Back Reflection	< -50 dB
Optical Transition Time ^{5,8}	< 25 ms
Switch Lifetime	> 1 Billion Cycles
Input Power Range	Dark to +27 dBm

- 1. Measured separately for each Test Wavelength
- 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. PER with connectors is 18 dB typical, 16 dB minimum
- 7. WDL is defined within Test Wavelength ±20 nm
- 8. 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	2U/2U (Front/Back, FC) 1U/2U (Front/Back, SC) 1U/2U (Front/Back, LC) 1U/2U (Front/Back, RLC)

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