



- 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

GP800 - □ - SX - □ - □ - □ - □ - □ - □

Chassis Type	
2U	2U
3U	3U
4U	4U
5U	5U
*Please consult DiCon	
Product Type	
SX	MEMS Matrix Switch
Configuration	
T72x72	72x72
TMxN	MxN (M, N≤72)
Fiber Type	
PM13	Corning PM 1310 Fiber
PM15	Corning PM 1550 Fiber
*Other fiber options available upon request	
Test Wavelength	
O	1310 nm
C	1550 nm
L	1590 nm
*Use "/" to add multiple wavelengths. E.g., O/C or O/C/L	
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	
S	Slow Axis
F	Fast Axis
Connector Location	
F	Front
R	Rear

MEMS 72X72 OPTICAL SWITCHING SYSTEM

GP800 Model, Polarization Maintaining Fiber

OPTICAL SPECIFICATIONS¹

Wavelength Range	1260 to 1675 nm
Insertion Loss ²	< 1.2 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 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. 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, 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/3U (Front/Back, RLC)