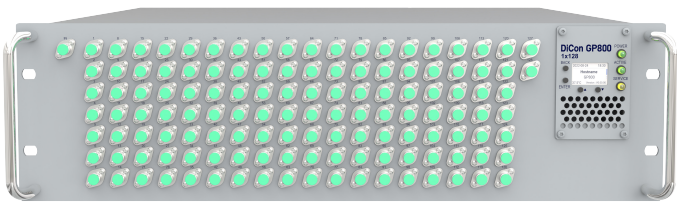


MEMS 1xN OPTICAL SWITCHING SYSTEM

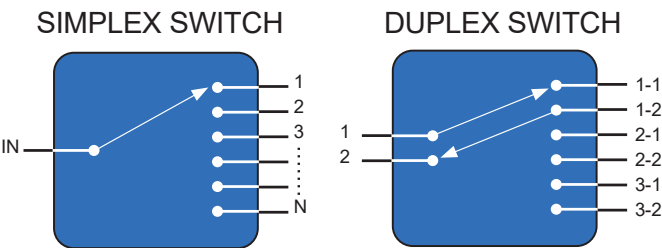
GP800 Model, Multimode Fiber



DiCon's **GP800 1xN Optical Switching System** enable the automated connection of one common fiber to any of N output fibers.

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.

- Interfaces - Web GUI, SSH, RS232, REST API, Telnet
- Low insertion loss
- Switching time < 25 ms
- Lifetime > 1 billion switch cycles
- 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 - ☐ - M - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - ☐ - N - ☐

Chassis Type

- 1U** 1U
2U 2U
3U 3U
4U 4U

**Please consult DiCon*

Product Type

- M** MEMS Switch

Configuration

- X/1xN** # of Switches /
1xN Simplex (N≤144)
X/1xN/DS # of Switches /
1xN Duplex (N≤144)

Alignment Type

- T** Transparent
P Opaque

Fiber Type

- 50** 50 μm
62 62 μm

**Other fiber options available upon request*

Test Wavelength

- 850** 850 nm
O 1310 nm
C 1550 nm

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

Power-On State

- 0** Channel 0 (Off state)
1 Channel 1
X Channel X

Connector Type

- FC** FC/UPC
FC/APC FC/APC
SC SC/UPC
SC/APC SC/APC
LC LC/UPC
LC/APC LC/APC
N None

**Other connector types available upon request*

Connector Key Orientation

- N** None

Connector Location

- F** Front
R Rear

MEMS 1XN OPTICAL SWITCHING SYSTEM

GP800 Model, Multimode Fiber

OPTICAL SPECIFICATIONS^{1,2}

Test Wavelength	850 / 1310 / 1550 nm
Insertion Loss ^{3,4}	0.7 dB max. (1 x 8) 0.7 dB max. (1 x 12) 1.2 dB max. (1 x 16) 1.2 dB max. (1 x 32) 1.2 dB max. (1 x 96) 1.2 dB max. (1 x 128) 1.2 dB max. (1 x 144)
Crosstalk ⁵	-30 dB max.
Back Reflection	-30 dB max.
Optical Transition Time ^{5,6}	25 ms max.
Repeatability ^{5,7}	0.04 dB max.
Switch Lifetime ⁵	1 Billion Cycles min.
Input Power Range ⁵	Dark to +27 dBm

1. Measured separately 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. When operating in multi-bands, add 0.5 dB for channels ≤ 12 , and 0.8 dB for channels > 12

5. Met by design, not measured

6. Optical transition time for all ports switching concurrently, not including command processing overhead

7. Over 100 cycles

ELECTRICAL SPECIFICATIONS

Power Supply	100-240 VAC, 50/60 Hz
Connectors	RJ45 (Ethernet) DB9 (RS232) USB-C (Service)
Control Interface	REST API, Web GUI, RS232, NETCONF, SNMPv2c, SNMPv3, TL1, gNMI, gRPC, Telnet, SSH

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 : 44 mm (1.7") 2U : 88 mm (3.5") 4U : 177 mm (7")

