DiCon Fiberoptics, Inc.

# MEMS 1X16 OPTICAL SWITCHING SYSTEM
GP800 Model, Single Mode Fiber

DiCon's **GP800 1x16 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 - 0.4dB typical (excluding connector 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
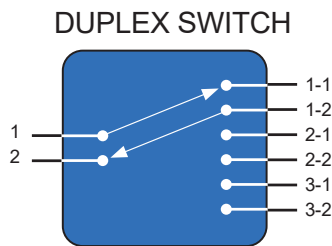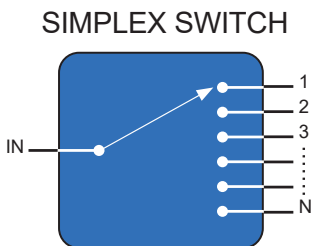
ORDERING INFORMATION

GP800 - ☐ - M - ☐ - ☐ - ☐ - 9 - ☐ - ☐ - ☐ - N - ☐

Chassis Type

1U	1U
2U	2U
3U	3U
4U	4U

*Please consult DiCon

Product Type

M	MEMS Switch

Number of Switches

#	Number of Switches

Switch Type

1x16	1x16 Simplex
1x16/DS	1x16 Duplex

Alignment Type

T	Transparent
P	Opaque

Fiber Type

9	9/125 µm SMF

*Other fiber options available upon request

Optimized Wavelength Range

O	1260-1360 nm
E	1360-1460 nm
S	1460-1530 nm
C	1530-1570 nm
L	1570-1625 nm
U	1625-1675 nm

*Multiple wavelength ranges can be supported.
Use "/" to add multiple ranges.
For example: For 1260 - 1360 nm & 1530 - 1570nm use O/C,
for 1260 to 1675 nm use O/E/S/C/L/U*

Start Up 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

SIMPLEX SWITCH

DUPLEX SWITCH

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FIBEROPTICS

MEMS 1X16 OPTICAL SWITCHING SYSTEM

GP800 Model, Single Mode Fiber

OPTICAL SPECIFICATIONS

Wavelength Range	1260 to 1675 nm
Insertion Loss[1,2]	< 1.2 dB
PDL[3]	< 0.1 dB
WDL[4,5]	< 0.2 dB
Crosstalk	< -50 dB
Back Reflection	< -50 dB
Switching Time, All Channels	< 25 ms
Switch Lifetime	> 1 Billion Cycles
Opticel Power	500 mW Max.

1. Excluding connector loss. Equivalent to Method A.3 Three Jumper (TIA/EIA-526-7). Tested at calibrated wavelengths.
2. IL add 0.3 dB for multi-band operation
3. PDL add 0.1 for multi-band operation
4. WDL add 0.1 dB for multi-band operation
5. Over the operating wavelength range of each band

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)