DiCon Fiberoptics, Inc.

MEMS 1X32 OPTICAL SWITCHING SYSTEM

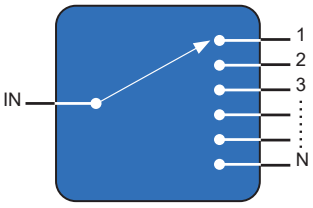
GP800 Model, Single Mode Fiber

DiCon's **GP800 1x32 Optical Switching System** enables the automated connection of one common fiber to any of N output fibers.

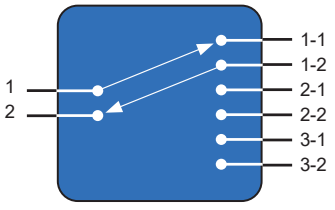
The **GP800 System** comes with multiple control interfaces for users to choose from and there are many options to customize the product, including adding other optical components, to meet unique requirements.

- 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

SIMPLEX SWITCH



DUPLEX SWITCH



ORDERING INFORMATION

GP800 -□- M -□ / □-□- 9 -□-□-□- N -□

Chassis Type

1U	1U
2U	2U

**Please consult DiCon*

Product Type

M	MEMS Switch

Number of Switches

#	Number of Switches

Switch Type

1x32	1x32 Simplex
1x32/DS	1x32 Duplex

Alignment Type

T	Transparent
P	Opaque

Fiber Type

9	9/125 µm SMF

**Other fiber options available upon request*

Test Wavelength

O	1310 nm
E	1410 nm
S	1490 nm
C	1550 nm
L	1590 nm
U	1650 nm

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

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

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OPTICAL SPECIFICATIONS[1]

Test Wavelength	1260 to 1675 nm
Insertion Loss[2,3]	< 1.2 dB
PDL[4,5]	< 0.1 dB
WDL[5,6]	< 0.4 dB
Crosstalk[5]	< -50 dB
Back Reflection	< -50 dB
Optical Transition Time[5,7]	< 25 ms
Repeatability[5,8]	< 0.04 dB
Switch Lifetime[5]	> 1 Billion Cycles
Optical Power[5]	500 mW Max.

1. Measured separately for each Test Wavelength at room temperature
2. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7.
3. Adds 0.3 dB for multi-band operation
4. Add 0.1 dB for multi-band operation
5. Met by design, not measured
6. WDL is defined within Test Wavelength ±20 nm
7. Not include the command processing overhead.
8. Over 100 cycles

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*	1U：44.0 mm (1.73”) 2U：88.0 mm (3.47”)

*Please consult DiCon. Depends on connectors and options.