

GP850 OPTICAL SWITCH

Multimode 1xN Switch Slot Card



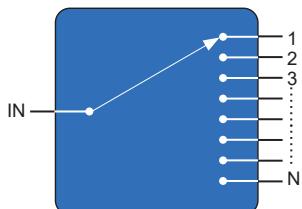
DiCon's **Multimode 1xN Switch Slot Card** offers accurate connection of one input fiber to one of N output fibers. Each Slot Card is designed for easy integration into DiCon's GP850 modular system. All Slot Cards require no configuration and are hot swappable, providing true plug-and-play functionality.

- Precise Repeatability
- Fast Switching Time
- MEMS Durability and Reliability

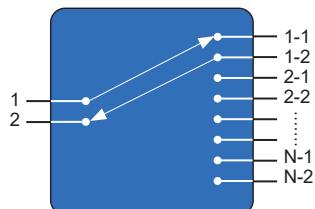
Applications

1xN Switches enable channel selection in an automated test system. They are commonly used to connect multiple sources or receivers to a device under test, or to quickly cycle between multiple devices connected to a single source.

SIMPLEX SWITCH



DUPLEX SWITCH



ORDERING INFORMATION

GP850 - SL - M - □ / □ - □ - □ - □ - □ - □ - □ - □ - N

Product Type

SL Slot Card

Device Type

M MEMS Switch

Number of Switches

Number of Switches

Switch Type

1xN 1xN Simplex (N≤128)

1xN/DS 1xN Duplex (N≤128)

Slot Width

1S 1-Slot Module

2S 2-Slot Module

4S 4-Slot Module

*Custom multi-slot modules available

Alignment Type

T Transparent

P Opaque

Fiber Type

50 50/125 µm MMF

62 62.5/125 µm MMF

*Other fiber options available upon request

Test Wavelength

850 850 nm

980 980 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



DiCon
FIBEROPTICS

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Multimode 1xN Switch Slot Card

OPTICAL SPECIFICATIONS^{1,2}

Insertion Loss ^{3,4}	1x1 (On/Off)	0.6 dB max.
	1x2	0.6 dB max.
	1x4	0.6 dB max.
	1x8	0.7 dB max.
	1x12	0.7 dB max.
	1x16	1.2 dB max.
Crosstalk ^{5,6}		-30 dB max.
Back Reflection		-25 dB max.
Optical Transition Time ^{6,7}		25 ms max.
Repeatability ^{6,8}		0.04 dB max.
Optical Power		500 mW max.
Fiber Type		Multimode

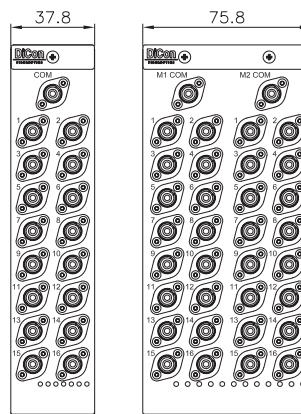
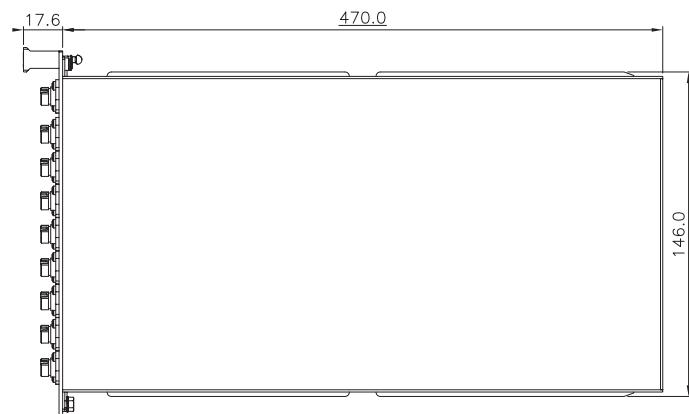
1. Measured separately for each Test Wavelength at room temperature.
2. Tested with Encircled flux compliant light source
3. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7.
4. When operating in multi-bands, add 0.5 dB for channels ≤12, and 0.8 dB for channels >12
5. For the On-Off Switch, the isolation is equal to crosstalk.
6. Met by design, not measured
7. Optical transition time for all ports switching concurrently, not including command processing overhead.
8. Repeatability is defined over 100 cycles.

SLOT WIDTH

Switch Size	FC Simplex / Duplex	SC Simplex / Duplex	LC Simplex / Duplex
1x8	1S / 1S	1S / 1S	1S / 1S
1x12	1S / 2S	1S / 2S	1S / 1S
1x16	1S / 2S	1S / 2S	1S / 1S

MECHANICAL SPECIFICATIONS

Dimensions in mm



1S

2S



DiCon Fiberoptics, Inc.

www.diconfiberoptics.com