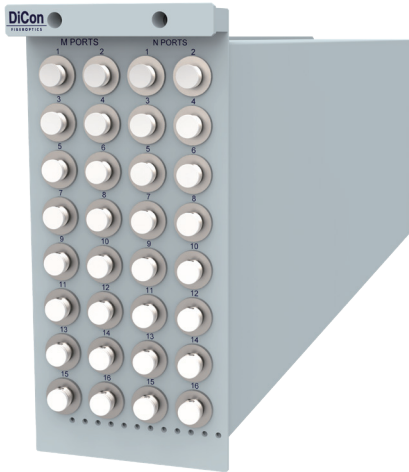


GP850 OPTICAL SWITCH

Multimode 16x16 MEMS 3D Matrix Switch Slot Card

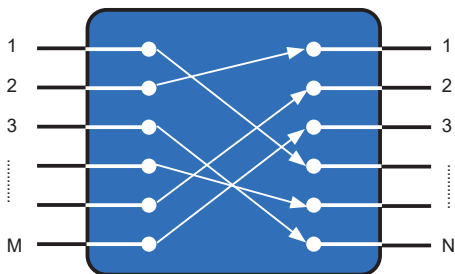


DiCon's **Multimode 3D Matrix Switch Slot Card** is a proprietary optical switch that allows any of the inputs to connect to any of the outputs in a non-blocking optical cross-connect configuration. This innovative design is based on arrays of DiCon's industry proven MEMS mirrors, which redirect light from the input fibers to the requested output fibers. For ease of control, this 3D Matrix Switch is provided as a Slot Card for use in DiCon's GP850 modular system.

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

Applications

Matrix optical switches allow resources to be shared within R&D or Production labs, while also being reconfigurable to adapt to future changes.



ORDERING INFORMATION

GP850 - SL - MX - □ - □ - □ - □ - □ - N

Product Type

SL Slot Card

Device Type

MX 3D MEMS Matrix Switch

Configuration

T16x16 16x16

TMxN MxN ($M, N \leq 16$)

Slot Width

2S 2-Slot Width

**Please consult DiCon*

Fiber Type

50 50/125 μm MMF62 62.5/125 μm MMF

*Other fiber options are available upon request

Test Wavelength

850 850 nm

980 980 nm

O 1310 nm

C 1550 nm

**Use "/" to add multiple wavelengths (E.g., 850/980)*

Connector Type

FC	FC/UPC
----	--------

FC/APC FC/APC

LC LC/UPC

LC/APC LC/APC

SC SC/UPC

SC/APC SC/APC

**Other connector types are available upon request*

Connector Key Orientation

N None



DiCon®
FIBEROPTICS

GP850 OPTICAL SWITCH

Multimode 16x16 MEMS 3D Matrix Switch Slot Card

OPTICAL SPECIFICATIONS^{1,2}

Wavelength Range		850 / 980 / 1310 / 1550 nm
Insertion Loss ³	50 µm	1.3 dB max.
	62.5 µm	1.6 dB max.
Repeatability ⁴		±0.03 dB max.
Connection Stability ^{5,7}		±0.03 dB max.
Transition Time ^{6,7}		25 ms max.
Crosstalk ⁷		-60 dB max.
Back Reflection		-25 dB max.
Durability ⁷		1 Billion Cycles min.
Optical Power ⁷		500 mW max.
Fiber Type		Multimode

- 1. All specifications are measured separately for each Test Wavelength at room temperature
- 2. Multimode fiber specifications are tested with Encircled Flux-compliant light sources
- 3. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- 4. Repeatability is defined over 100 cycles
- 5. 1 Hz sampling rate for 15 min
- 6. Optical transition time for all ports switching concurrently, not including command processing overhead
- 7. Met by design, not measured

MECHANICAL SPECIFICATIONS

Dimensions in mm

