DiCon Fiberoptics, Inc.

# GP850 OPTICAL SWITCH

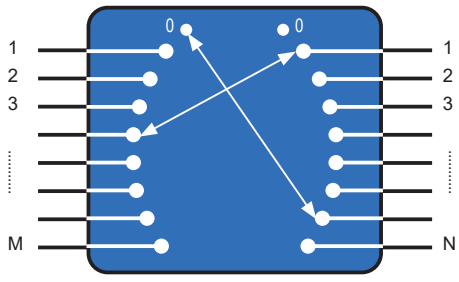
## Singlemode 32x32 Slot Card


DiCon's **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.




Up to 32x32

## ORDERING INFORMATION

**GP850 - SL - SX - □ - □ - 9 - □ - □ - N**

Product Type

| | |
|---|---|
| **SL** | Slot Card |

Device Type

| | |
|---|---|
| **SX** | MEMS Matrix Switch |

Configuration

| | |
|---|---|
| **T32x32** | 32x32 |
| **TMxN** | MxN (M, N≤32) |

Slot Width

| | |
|---|---|
| **2S** | 2-Slot Width |
| **4S** | 4-Slot Width |

**Please consult DiCon*

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*

Connector Type

| | |
|---|---|
| **FC** | FC/UPC |
| **FC/APC** | FC/APC |
| **SC** | SC/UPC |
| **SC/APC** | SC/APC |
| **LC** | LC/UPC |
| **LC/APC** | LC/APC |

**Other connector types available upon request*

Connector Key Orientation

| | |
|---|---|
| **N** | None |

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## OPTICAL SPECIFICATIONS [1]

| | |
|---|---|
| Wavelength Range | 1260 to 1675 nm |
| Insertion Loss[2] | < 1.0 dB |
| Loss Repeatability[3] | +/- 0.03 dB |
| Connection Stability[4,5] | +/- 0.03 dB |
| PDL[5] | < 0.1 dB |
| WDL[5,6] | < 0.3 dB |
| Crosstalk[5] | < -60 dB |
| Back Reflection | < -50 dB |
| Optical Transition Time[5,7] | < 25 ms |
| Switch Lifetime | > 1 Billion Cycles |
| Input Power Range | Dark to +27 dBm |

1. Measured separately for each Test Wavelength
2. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7.
3. Over 100 cycles
4. 1 Hz sampling rate for 15 min
5. Met by design, not measured
6. WDL is defined within Test Wavelength ±20 nm
7. Optical transition time for all ports switching concurrently, not including command processing overhead

## MECHANICAL SPECIFICATIONS

Dimensions in mm