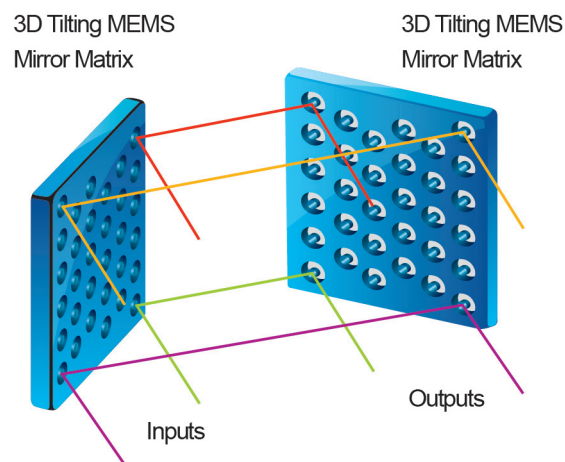


96x96 MEMS 3D RACKMOUNT MATRIX OPTICAL SWITCH

DiCon's MEMS Rackmount 3D Matrix Optical Switch is a proprietary optical switch structure that allows the simultaneous connection of multiple input to output fibers in a non-blocking, all-optical cross-connect configuration.

OPERATING PRINCIPLE (ANY PORT TO ANY PORT FUNCTIONALITY)



FEATURES

- Available in any MxN Size up to 96x96
- Proven DiCon MEMS Technology
- Easy-To-Use Rackmount Housing
- Ethernet or RS232 Interface

APPLICATIONS

DiCon Fiberoptics offers a rackmount version of the 3D Matrix Optical Switch for research and production environments, and is used to share valuable resources in an automated, reliable manner.



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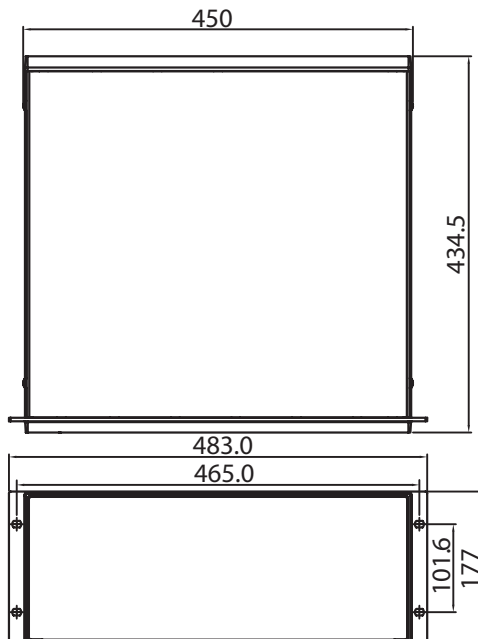
OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ²	48x48	0.8 dB typ. 1.0 dB max.
	64x64	0.9 dB typ. 1.2 dB max.
	96x96	1.0 dB typ. 1.5 dB max.
Crosstalk		-50 dB max.
Back Reflection		-45 dB max.
Switching Time		50 ms max.
PDL		0.2 dB max.
WDL ³		0.4 dB max.
TDL		0.3 dB max.
Repeatability ⁴		+/- 0.04 dB max.
Stability ⁵		+/- 0.05 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Operating Temperature		-5 to 70°C
Storage Temperature		-40 to 85°C
Fiber Type		9/125 μm single-mode

- All specifications are without connectors for the set wavelength band index.
- Note: Each wavelength band has its own wavelength index, which can be set to optimize the optical performance for that band. Only one wavelength index band can be selected at a time and it applies to all ports on the module.
- IL is measured at CWL for the set wavelength index at 23°C +/- 5°C.
- WDL is measured in a +/- 20nm range at 23°C +/- 5°C.
- Repeatability is defined within 100 cycles.
- Stability is defined within 8 hrs at 23°C +/- 5°C

MECHANICAL DIMENSIONS

4U 19" RACKMOUNT CHASSIS



ORDERING INFORMATION

MXR - - 4U - - - 9 - - B -

Product Code	
MXR	MEMS Rackmount Matrix Switch
Switch Configuration	
MxN/3D	3D MxN Non-Blocking (Specify M,N ≤ 96)
Housing Type	
4U	4U Rackmount
Control Interface	
ETH	Ethernet
RS2	RS232
E/R	Ethernet & RS232
<i>Only one control interface can be selected at a time.</i>	
Wavelength Range	
13	1290 - 1330 nm
15	1530 - 1570 nm
16	1570 - 1610 nm
13/15	1290 - 1330 nm & 1530 - 1570 nm
15/16	1530 - 1570 nm & 1570 - 1610 nm
13/15/16	1290 - 1330 nm & 1530-1570 & 1570-1610 nm
<i>Other wavelengths available upon special request</i>	
Fiber Type	
9	Corning SMF-28
<i>Or other equivalent 9μm Single-mode fiber</i>	
Connector Type	
FC/SPC	FC/SPC
FC/APC	FC/APC
MTP	MTP
<i>Also Available: SC, SC/UFC, SC/APC, ST, ST/UFC, LC</i>	
Port Type	
B	Bulkhead Adaptors
Port Location	
F	Front Panel
R	Rear Panel

ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Control Type		Ethernet or RS232
Input Voltage		90 - 264 VAC
Connector	Ethernet	RJ45
Type	RS232	9 Pin DB9