

MEMS RACKMOUNT 3D 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.



FEATURES

- Available in any MxN Size up to 16x16
- 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 a automated, reliable manner.



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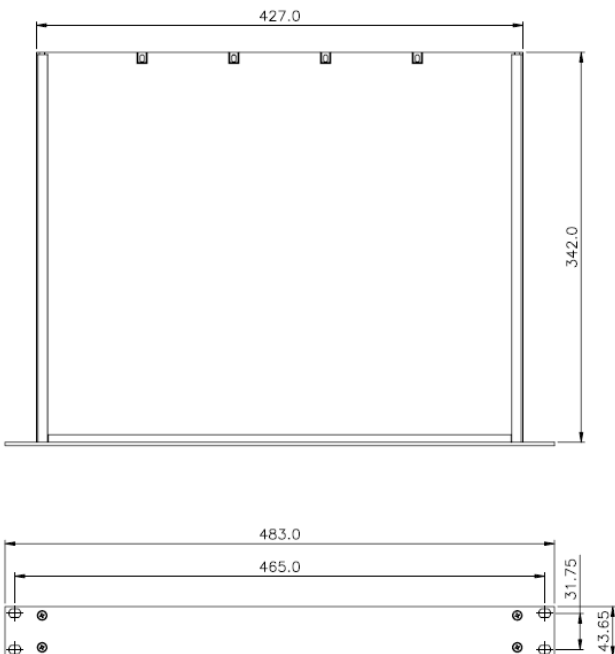
OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ²	8x8	0.8 dB typ. 1.0 dB max. ³
	16x16	0.8 dB typ. 1.3 dB max. ³
Crosstalk		-50 dB max.
Back Reflection		-45 dB max.
Switching Time		40 ms max.
TDL		0.4 dB max.
WDL ³		0.4 dB max.
PDL		0.4 dB max.
Repeatability ⁴		+/- 0.03 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.
- IL is measured at CWL at 23°C +/- 5°C.
- IL is for single band, dual or triple band add 0.1 dB to the typical IL and add 0.2 dB to the max IL.
- WDL is measured in a +/- 20nm range at 23°C +/- 5°C.
- Repeatability is defined within 100 cycles.

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS



ORDERING INFORMATION

MXR - - 1U - - - 9 - - B -

Product Code

MXR MEMS Rackmount Matrix Switch

Switch Configuration

MxN/3D 3D MxN Non-Blocking (Specify M,N≤16)

Housing Type

1U 1U Rackmount

Control Interface

ETH Ethernet
RS2 RS232
E/R Ethernet & RS232

Only one control interface can be selected at a time.

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

Other wavelengths available upon special request

Fiber Type

9 Corning SMF-28
Or other equivalent 9μm Single-mode fiber

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
MTP MTP
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

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 Type	Ethernet	RJ45
	RS232	9 Pin DB9