

MEMS RACKMOUNT MULTIMODE MODULAR MATRIX OPTICAL SWITCH

DiCon's MEMS Rackmount Multimode Modular Matrix Optical Switch is based on an arrangement of DiCon's industry proven MEMS 1xN optical switches, and allows any input to connect to any output in a non-blocking, all-optical cross-connect configuration.



FEATURES

- Available with 50 μm or 62.5 μm Multimode Fiber
- Proven DiCon MEMS Technology
- Easy-To-Use Rackmount Housing
- Ethernet or RS232 Interface

APPLICATIONS

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



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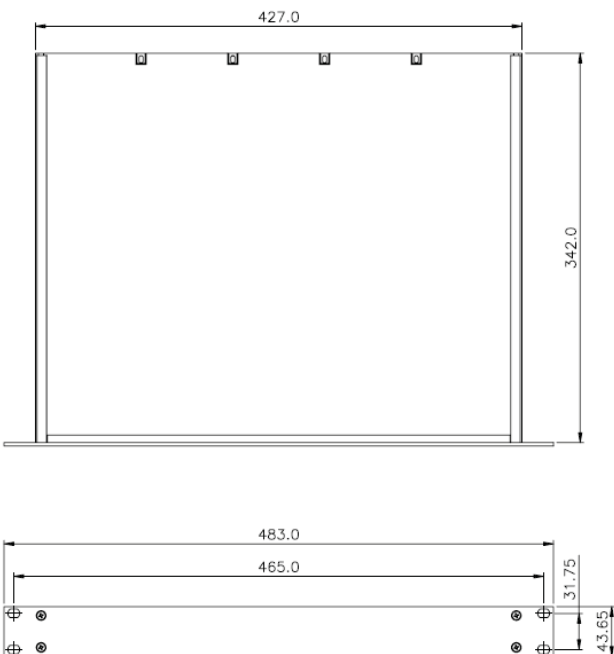
OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ^{2,3}	4x4	2.0 dB max.
	8x8	2.4 dB max.
Crosstalk	50 μm	-25 dB max.
	62.5 μm	-20 dB max.
Back Reflection		-20 dB max.
Switching Time		30 ms max.
TDL		0.4 dB max.
Repeatability ⁴		0.04 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		Multimode, Bare Fiber

- Specifications are without connectors.
- IL is measured at specified wavelength, 23°C.
- IL is for single-band. Dual-band add 0.4 dB.
- Repeatability is defined after 100 cycles.

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS



ORDERING INFORMATION

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

Product Code									
MXR	MEMS Rackmount Matrix Switch								
Switch Configuration									
MxN	MxN Non-Blocking Specify M,N≤8 for 50μm and M,N≤4 for 62.5μm								
Housing Type									
1U	1U 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									
8	850 nm only								
9	980 nm only								
8/13	850 & 1310 nm								
<i>Other wavelengths available upon special request</i>									
Fiber Type									
50	50μm core								
62	62.5μm core								
Connector Type									
FC/SPC	FC/SPC								
FC/APC	FC/APC								
MTP	MTP								
<i>Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, 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 Type	Ethernet	RJ45
	RS232	9 Pin DB9