

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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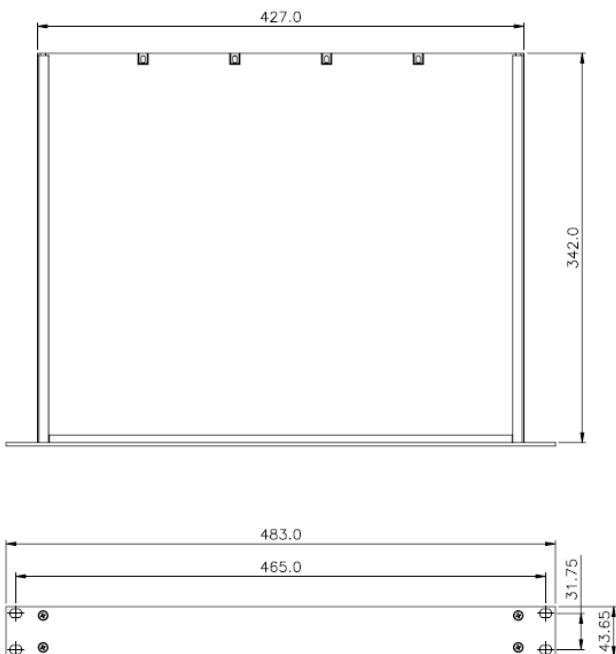
OPTICAL SPECIFICATIONS¹

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 50 μm
and M, N ≤ 4 for 62.5 μm

Housing Type

1U 1U Rackmount

Control Interface

ETH Ethernet
RS2 RS232

Wavelength Range

8 850 nm only
9 980 nm only
8/13 850 & 1310 nm
Other wavelengths available upon special request

Fiber Type

50 50 μm core
62 62.5 μm core

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