MEMS MULTI-MODE RACKMOUNT 1XN ARRAY OPTICAL SWITCH

DiCon's MEMS Multi-Mode Rackmount 1xN Array Optical Switch allows for the precise control of multiple 1xN optical switches through a single control interface. The array of optical switches can be controlled individually or synchronously, and are bidirectional so they can be used in either a 1xN or Nx1 orientation.

DiCon's MEMS 1xN optical switches offer excellent optical performance, high reliability over a very long lifetime. They have been tested and proven in the telecommunication, aerospace and other demanding applications.



FEATURES

- Proven MEMS Durability and Reliability
- Compact Form Factor
- Fast Switching Time

APPLICATIONS

- Bio-medical Instrumentation
- Fiber Sensing
- Video Distribution



MEMS MULTI-MODE RACKMOUNT 1XN ARRAY OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion	Up to 1X4	1.0 dB max.
Loss ^{2,3,4}	Up to 1x8	1.4 dB max.
Crosstalk ⁵	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 ⁶		0.04 dB max.
Durability		109 cycles min.
Optical Power		500 mW max.
Operating Temp		-5 to 70°C
Storage Temp		-40 to 85°C
Fiber Type		Multi-mode

- 1. Specifications are without connectors.
- 2. IL is measured at specified wavelength, 23°C.
- 3. IL is for standard transparent model.
- 4. IL is for single-band. Dual-band adds 0.4 dB.
- 5. Power off isolation is same as crosstalk.
- 6. Repeatability is defined after 100 cycles.

ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Latching Type		Non-Latching
Vcc Voltage		100 - 240 VAC
Control Type		Ethernet or RS232
Connector	Ethernet	RJ45
Туре	RS-232	9-Pin DB9

FRONT PANEL CONNECTOR & CHASSIS OPTIONS¹

FC	SC	LC
1x42	1x54	1x84
1x72	1x80	1x144
1x230	1x225	1x380
	1x42 1x72	1x42 1x54 1x72 1x80

1. Maximum 1xN size based on connector spacing and chassis size.

ORDERING INFORMATION

	MSR - □/□] - [] - [[- [
Product	Code			
MSR	MEMS			
	Rackmount			
	Switch			
Number	of Switches			
М	# of Switches			
	Specify M≤16			
Switch C	onfiguration			
1xN	1xN Switch			
	Specify N≤8 for 50um			
	Specify N≤4 for 62.5um			
Housing	Туре			
1U	1U Rackmount			
2U	2U Rackmount			
4U	4U Rackmount			
Control	nterface			
ETH	Ethernet			
RS2	RS232			
Waveler	ngth Range			
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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

10	10/50
LC	LC/PC
SC	SC/PC
ST	ST/PC
N	NONE

Other connector types available upon request

Port Type

B Bulkhead Adaptors

Port Location

F Front Panel R Rear Panel