# MEMS MULTI-MODE RACKMOUNT 1XN OPTICAL SWITCH CONFIGURABLE UP TO 1X64

DiCon's MEMS Multi-Mode Rackmount 1xN Optical Switch allows a common input fiber to be switched to any one of N output fibers. Based on DiCon's industry proven MEMS optical switches, this system offers reliable switching over a very long lifetime.



## FEATURES

- Proven MEMS Durability and Reliability
- Available in any 1xN size up to 1x64
- Fast Switching Time
- Simple Rackmount Design

## **APPLICATIONS**

- Fiber Monitoring
- Fiber Sensing
- Test & Measurement



# MEMS MULTI-MODE RACKMOUNT 1XN OPTICAL SWITCH

### **CONFIGURABLE UP TO 1X64**

#### **OPTICAL SPECIFICATIONS<sup>1</sup>**

PARAMETER		RATING	
Insertion	Up to 1X4	1.0 dB max.	
Loss <sup>2,3</sup>	Up to 1x8	1.4 dB max.	
	Up to 1x16	1.6 dB max.	
	Up to 1x24	2.0 dB max.	
	Up to 1x64	2.4 dB max.	
Crosstalk <sup>4</sup>	50 μm	-25dB max.	
	62.5 μm	-20dB max.	
Back Reflection		-20 dB max.	
Switching	Up to 1x4	20 ms max.	
Time	Up to 1x16	30 ms max.	
	Up to 1x64	40 ms max.	
TDL		0.4 dB max.	
Repeatability <sup>5</sup>		0.04 dB max.	
Durability		10 <sup>9</sup> 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 single-band. Dual-band adds 0.6 dB.

4. Power off isolation is same as crosstalk.

5. 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	

	MSR В
Product	Code
MSR	MEMS
	Rackmount
	Switch
	onfiguration
1xN Specify N≤64	1xN Switch   for 50um or N≤16 for 62.5um
Housing	Туре
1U	1U Rackmount
2U	2U Rackmount
Control I	nterface
	Ethernet
RS2	RS232
Wavelen	gth Range
8	850 nm only
9	980 nm only
8/13	850 & 1290 -1330 nm
Other wa	avelengths available upon special request
Fiber Ty	be la
50	50µm core
62	62.5µm core
Connect	or Type
	FC/PC
LC	LC/PC
SC	SC/PC
ST	ST/PC
N	NONE
Other col	nnector types available upon request
Port Type	
В	Bulkhead Adaptors
Port Loca	
F	Front Panel
R	Rear Panel

### FRONT PANEL CONNECTOR & CHASSIS OPTIONS<sup>1</sup>

CHASSIS SIZE	FC	SC	LC
1U	1x42	1x54	1x84
2U	1x72	1x80	1x144

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