MEMS RACKMOUNT SINGLE-MODE 1XN SWITCH CONFIGURABLE UP TO 1x128

DiCon's MEMS Rackmount Single-mode 1xN 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 1x128
- Lifetime over 1 billion switch cycles
- Simple rackmount design

APPLICATIONS

- Fiber Monitoring
- Fiber Sensing
- Test & Measurement



MEMS RACKMOUNT SINGLE-MODE 1XN SWITCH

CONFIGURABLE UP TO 1x128

MSR

1xN

1U

2U

4U

ETH

RS2

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING	
Insertion	Up to 1x8	0.8 dB max.	
Loss ^{2,3}	Up to 1x12	1.2 dB max.	
	Up to 1x32	1.5 dB max.	
	Up to 1x48	1.9 dB max.	
	Up to 1x96	2.0 dB max.	
	Up to 1x128	2.4 dB max.	
Crosstalk ^₄		-50 dB max.	
Back Reflection		-50 dB max.	
Switching Time		40 ms max.	
TDL		0.40 dB max.	
WDL⁵		0.30 dB max.	
PDL ⁶		0.10 dB max.	
Repeatability ^{7,8}		0.02 dB max.	
Durability		10 ⁹ cycles min.	
Optical Power		500 mW max.	
Operating Temp		-5 to 70°C	
Storage Temp		-40 to 85°C	
Fiber Type		9/125 μ m single mode	

1. Specifications are without connectors.

2. IL is for single band. Dual-Band adds 0.2 dB

3. IL is measured at CWL, 23°C.

4. Power off isolation is same as crosstalk.

5. WDL is measured in a +/- 20nm range at 23°C.

6. PDL is for single-band. Dual-band adds 0.05 dB.

7. Repeatability is defined after 100 cycles.

8. Add 0.02 dB for switches with more than 12 channels.

ELECTRICAL SPECIFICATIONS

PARAMETER		RATING	
Latching Typ	е	Non-latching	
Control Type Input Voltage		Ethernet or RS232	
		90 - 264 VAC	
Connector	Ethernet	RJ45	
Туре	RS232	9 Pin DB9	

ORDERING INFORMATION Product Code MEMS Rackmount Switch Switch Configuration 1xN, Specify N≤128 Housing Type 1U Rackmount 2U Rackmount 4U Rackmount **Control Interface** Ethernet RS232

Wavelength Range

	0 0
13	1290 - 1330 nm
15	1530 - 1570 nm
16	1570 - 1610 nm
13/15	1290 - 1330 & 1530 - 1570 nm
15/16	1530 - 1570 & 1570 - 1610 nm

Fiber Type

g Corning SMF-28

Or other equivalent 9µm Singlemode 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

В **Bulkhead Adaptors**

Port Location

- F Front Panel
- R Rear Panel

SPECIFICATIONS / ORDERING INFORMATION

FRONT PANEL CONNECTOR & CHASSIS OPTIONS¹

CHASSIS SIZE	FC/APC	SC/APC	LC/APC
	FC/UPC	SC/UPC	LC/UPS
1U	1x42	1x54	1x84
2U	1x72	1x80	1x144
4U	1x230	1x225	1x380

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