

MEMS SINGLE MODE RACKMOUNT 1xN SWITCH

CONFIGURABLE UP TO 1x128

DiCon's MEMS Single Mode Rackmount 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



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OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ²	Single-Band	1.8 dB max.
	Dual-Band	2.0 dB max.
Crosstalk ³		-50 dB max.
Back Reflection		-50 dB max.
Switching Time		40 ms max.
TDL		0.40 dB max.
WDL ⁴		0.30 dB max.
PDL		0.15 dB max.
Repeatability ⁵		0.04 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 μm single mode

- Specifications are without connectors.
- IL is measured at CWL, 23°C.
- Power off isolation is same as crosstalk.
- WDL is measured in a +/- 20nm range at 23°C.
- Repeatability is defined after 100 cycles.

ELECTRICAL SPECIFICATIONS

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

CONNECTOR & CHASSIS OPTIONS¹

CONNECTOR QUANTITY		CHASSIS SIZE
FRONT	REAR	
48	34	1U
64	54	2U
128	128	4U

- Based on FC connectors.

ORDERING INFORMATION

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Product Code

MSR MEMS
Rackmount
Switch

Switch Configuration

1xN 1xN, Specify N≤128

Housing Type

1U 1U Rackmount
2U 2U Rackmount
4U 4U Rackmount

Control Interface

ETH Ethernet
RS2 RS232

Wavelength Range

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

9 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/UPLC, SC/APC, ST, ST/UPLC, LC

Port Type

B Bulkhead Adaptors

Port Location

F Front Panel
R Rear Panel

MECHANICAL DIMENSIONS

(Units: mm)

1U 19" RACKMOUNT CHASSIS

