

MEMS RACKMOUNT 1xN ARRAY OPTICAL SWITCH

DiCon's MEMS Rackmount 1xN Array Optical Switch allows computer control of multiple, industry-proven DiCon MEMS 1xN optical switches in a simple rackmount housing.



FEATURES

- Proven MEMS Durability and Reliability
- Long Lifetime, Over 1 Billion Switch Cycles
- Easy-To-Use Rack Mount Housing
- Ethernet or RS-232 Interface

APPLICATIONS

- Test & Measurement
- Optical Communications
- Military & Defense
- Research & Development



MEMS RACKMOUNT 1XN ARRAY OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion	$2 \leq N \leq 8$	0.8 dB max.
Loss ^{2,3,4}	$8 < N \leq 12$	1.2 dB max.
Crosstalk ⁵		-50 dB max.
Back Reflection		-50 dB max.
Switching Time		30 ms max.
TDL		0.40 dB max.
WDL ⁶		0.30 dB max.
PDL		0.15 dB max.
Repeatability ⁷		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		9/125 µm single mode

- Specifications are without connectors.
- IL is measured at CWL, 23°C.
- IL is for standard opaque model.
- IL is for single-band. Dual-band adds 0.2dB.
- 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
Control Type		Ethernet or RS232
Input Voltage		85 - 264 VAC
Connector Type	Ethernet	RJ45
	RS-232	9 Pin DB9

CONNECTOR & CHASSIS OPTIONS^{1,2}

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

- Based on FC connectors.
- For higher port counts, contact DiCon.

ORDERING INFORMATION

MSR - / - - - - - - - - -

Product Code

MSR MEMS
Rackmount
Switch

Number of Switches

M # of Switches
(Specify M≤16)

Switch Configuration

1xN 1xN
(Specify N≤12)

Housing Type

1U 1U Rackmount
2U 2U 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/B SMF-28, Bulkhead Adaptors
9/LT SMF-28, Loose-Tube Pigtailed

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC

Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Port Type

B Bulkhead Adaptors
1 1 Meter Loose-tube Pigtailed
X Specify X Meters
Tolerance is +/- 0.05 m

Port Location

F Front Panel
R Rear Panel

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS

