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

DiCon FIBEROPTICS

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MEMS RACKMOUNT 1XN ARRAY OPTICAL SWITCH

OPTICAL SPECIFICATIONS[1]

PARAMETER		RATING
Insertion Loss[2,3,4]	2 ≤ N ≤ 8	0.8 dB max.
	8 < N ≤ 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

1. Specifications are without connectors.
2. IL is measured at CWL, 23°C.
3. IL is for standard opaque model.
4. IL is for single-band. Dual-band adds 0.2dB.
5. Power off isolation is same as crosstalk.
6. WDL is measured in a +/- 20nm range at 23°C.
7. 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

1. Based on FC connectors.
2. 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
E/R	Ethernet & RS232

Only one control interface can be selected at a time.

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 9 um Singlemode fiber

Connector Type

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

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

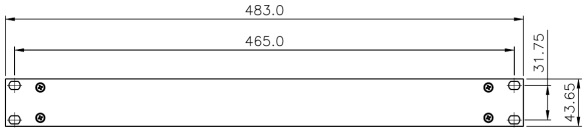
Port Type

B	Bulkhead Adaptors
1	1 Meter Loose-tube Pigtails
X	Specify X Meters

Tolerance is +/- 0.05 m

Port Location

F	Front Panel
R	Rear Panel

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS