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



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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 μm 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 Type		Non-latching	
Control Type		Ethernet or RS232	
Input Voltage		90 - 264 VAC	
Connector	Ethernet	RJ45	
Туре	RS232	9 Pin DB9	

ODDEDING INFORMATION

	ORDERING INFORMATION			
	MSR 9 B -			
Product	MEMS Rackmount Switch			
Switch (Configuration			
1xN	1xN, Specify N≤128			
Housing	Туре			
1U 2U 4U	1U Rackmount 2U Rackmount 4U Rackmount			
Control	Interface			
ETH RS2 E/R	Ethernet RS232 Ethernet & RS232 control interface can be selected at a time.			
	ngth Range			
13	1290 - 1330 nm			
15 16	1530 - 1570 nm 1570 - 1610 nm			
13/15				
15/16				
Fiber Ty	rpe			
9 Or other	Corning SMF-28 equivalent 9µm Singlemode fiber			
Connec	etor Type			
FC/APC	FC/SPC FC/APC			
MTP	MTP			
	lable: SC, SC/UPC, SC/APC, ST, ST/UPC, LC			
Port Typ	ie			

В **Bulkhead Adaptors**

Port Location

Front Panel F R Rear Panel

FRONT PANEL CONNECTOR & CHASSIS OPTIONS¹

CHASSIS S	IZE FC/	APC	SC/APC	LC/APC
	FC/	UPC	SC/UPC	LC/UPS
1U	1x	42	1x54	1x84
2U	1x	72	1x80	1x144
4U	1x2	230	1x225	1x380

^{1.} Maximum 1xN size based on connector spacing and chassis size.