DICON MEMS MXN MATRIX OPTICAL SWITCH

AVAILABLE EXCLUSIVELY FROM EXFO

Optimized for use with EXFO systems and software control, the DiCon Fiberoptics MXS-9100 MEMS MxN Matrix Optical Switch allows any input fiber to connect to any output fiber in a fully non-blocking manner.



DiCon's all-optical cross-connect technology provides the unique combination of low insertion loss, fast switching and very high reliability required by engineers in their lab or manufacturing environments.

With its remote-control capabilities using Standard Commands for Programmable Instruments (SCPI) over Ethernet, the MXS-9100 is the perfect solution for sharing centralized instruments or automated tests in manufacturing.

KEY FEATURES

- Available in 2x8, 4x4, 4x8, 4x16, 8x8 and 16x16 configurations
- Protocol and bit rate independent
- Fast switching time < 40 ms
- High reliability with lifetime > 10⁹ Cycles
- SCPI over Ethernet remote-control capabilities
- User configurable Auto-Save feature that restores switch states after a power cycle



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OPTICAL SPECIFICATIONS¹

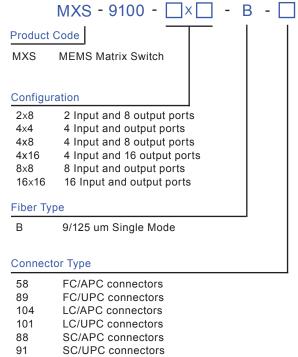
PARAMETER		RATING
Insertion Loss ^{2,3}	2x8	2.2 dB max. @ 1310 nm
		1.8 dB max. @ 1550/1625/1650 nm
	4x4	2.1 dB max. @ 1310 nm
		1.7 dB max. @ 1550/1625/1650 nm
	4x8	2.3 dB max. @ 1310 nm
		2.0 dB max. @ 1550/1625/1650 nm
	4x16	3.6 dB max. @ 1310 nm
		3.0 dB max. @ 1550/1625/1650 nm
	8x8	2.5 dB max. @ 1310 nm
		2.1 dB max. @ 1550/1625/1650 nm
	16x16	3.6 dB max. @ 1310 nm
		3.0 dB max. @ 1550/1625/1650 nm
Crosstalk ⁴		-55 dB max.
Back Reflection ⁴		-45 dB max.
Switching Time		40 ms max.
PDL ⁴		0.15 dB max.
Repeatability ⁵		0.04 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Operating Temperature		0 to 70 °C

- 1. Specifications are without connectors.
- 2. Insertion Loss is measured at the specified wavelengths, 23 ± 5 °C.
- 3. Power off isolation is the same as crosstalk.
- 4. Measured at 1550 nm.
- 5. Repeatability is defined after 100 cycles.

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	Non-latching
Control Type	Ethernet Interface with
	EXFO SCPI Command Set
Supply Voltage	AC 100 - 240 V, 50/60 Hz

ORDERING INFORMATION



MECHANICAL DIMENSIONS

(Units: mm)

