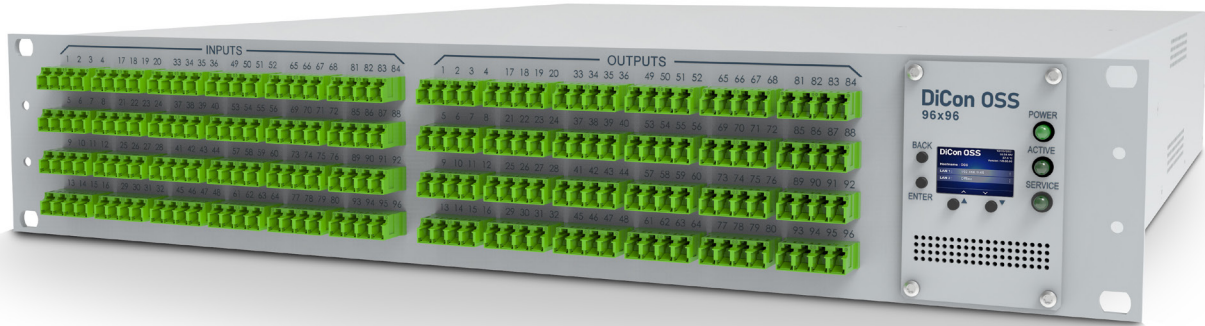


MEMS OPTICAL SWITCHING SYSTEM

DiCon's MEMS based Optical Switching System (OSS) is a proprietary optical switch that allows any input to connect to any output in a fully non-blocking, all-optical cross-connect configuration. This innovative design is based on DiCon's industry proven MEMS mirror technology and offers the same level of performance and reliability that can be expected from any of its fiber optic switch solutions. Secure and modern software features and interfaces such as Software Defined Networking (SDN) enable automation and multiple user sessions. The system can also be highly customized for your application.



FEATURES

- Industry leading optical performance and reliability
- Software defined port partitioning, user provisioning, preset configurations
- Energy efficient, low power consumption
- Low latency for time critical traffic
- No dithering or active alignment artifacts

APPLICATIONS

- Dynamic management of optical networks and traffic
- Configurable test and measurement
- Security and critical infrastructure



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MEMS OPTICAL SWITCHING SYSTEM

OPTICAL SPECIFICATIONS

PARAMETER	RATING
Insertion Loss (dB) ¹	(16x16, 32x32) 0.5 typ., 0.9 max. (96x96) 0.8 typ., 1.4 max.
Port dimensions	Up to 192x192
Stability (dB) ²	0.05 typ., 0.1 max.
Switching time (ms)	25 max for all concurrent
Optical crosstalk (dB)	-85 typ., -70 max.
PDL (dB) ³	0.1 typ., 0.25 max.
Operating wavelength (nm)	1260 – 1650, custom
Operating temperature (°C)	0 to 50
Fiber connectors	LC, MTP, other
Fiber type	SMF-28, PM
Simplex, Duplex	Both available
Power Monitoring ⁴	Optional on any port
Others	Non-blocking Bi-directional

1. Excluding connector loss. Equivalent to Method A.3 Three Jumper in TIA/EIA-526-7. Test at 1310nm/1550nm/1590nm.

2. Sampled at 10kHz for 10 sec.

3. Add 0.1dB max. for either input or output power monitoring function.

4. Add 0.4dB max. IL for either input or output power monitoring function.

CONTROL AND MANAGEMENT

SDN and automation interfaces: REST API, NETCONF, SNMPv3, TL1, Web GUI, RS232

Port partitioning and group permissions

User and group management

Save and load preset configurations

System event and alarm logging

ELECTRICAL AND MECHANICAL

Dimensions: 2U extended (W483 x H88 x D558.6mm)⁵

Uninterrupted "hitless" field service, upgrades⁶

Redundant Power Supply 90-265VAC, -48VDC

5. 96x96 with LC connectors, other sizes available

6. Holds state when updating firmware for example

* Please contact DiCon Fiberoptics to discuss any special requirements not defined above.