

MEMS 600X600 OPTICAL SWITCHING SYSTEM

OSS Model, Single Mode Fiber, Network Grade

OPTICAL SPECIFICATIONS¹

Test Wavelength	1260 to 1680 nm
Insertion Loss ²	< 2.1 dB
Insertion Loss (with 1 OPM) ²	< 2.4 dB
Insertion Loss (with 2 OPM) ²	< 2.7 dB
Loss Repeatability ³	+/- 0.03 dB
Connection Stability ^{4,5}	+/- 0.03 dB
PDL ⁵	< 0.1 dB
PDL with OPM ⁵	< 0.3 dB
WDL ^{5,6}	< 0.3 dB
Crosstalk ⁵	< -60 dB
Data Latency ⁵	< 15 ns
Back Reflection	< -50 dB
Optical Transition Time ^{5,7}	< 25 ms
Switch Lifetime	> 1 Billion Cycles
Input Power Range	Dark to +27 dBm
OPM Dynamic Range	-50 to +22 dBm
OPM Relative Accuracy	+/-0.2 dB @ > -30 dBm +/-0.5 dB @ > -50 dBm
VOA Accuracy (Closed-Loop) ^{5,8,9}	+/-0.3 dB @ 20 dB Attn +/-0.5 dB @ 30 dB Attn
VOA Accuracy (Open-Loop) ^{8,10}	+/-1.5 dB @ 20 dB Attn +/-1.5 dB @ 30 dB Attn

1. Measured separately for each Test Wavelength at room temperature
2. Measured with 3-jumper method or equivalent. See TIA/EIA 526-7
3. Over 100 cycles
4. 1 Hz sampling rate for 15 min
5. Met by design, not measured
6. Test Wavelength +/-20 nm
7. Optical transition time for all ports switching concurrently, not including command processing overhead
8. 98th percentile of optical connections; defined as the average +2 standard deviations
9. Requires N side Power Monitoring
10. Corresponds to accuracy using Constant Attenuation Mode. Both Constant Power Mode and Relative Attenuation Mode will have better accuracy due to Closed-Loop feedback

ELECTRICAL SPECIFICATIONS

Power Consumption*	< 100W Steady State < 110W at Startup
Power Supply Options	Redundant Power Supply, 100-240 VAC or -48 VDC
Network Interface Card	RJ45 Dual Redundant Gigabit Ethernet
SDN & Automation Interfaces	REST API, NETCONF, SNMPv3, TL1, Web GUI, RS232, gNMI

*Power is measured with M and N side Power Monitoring

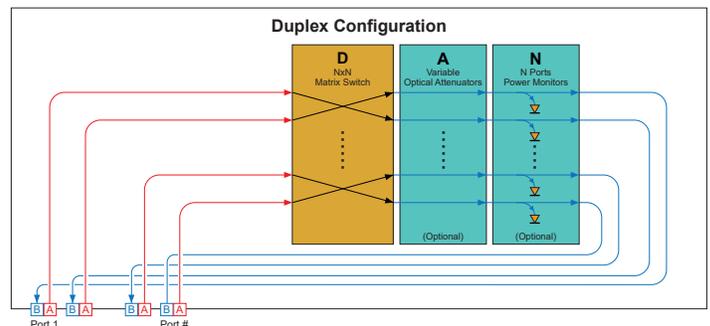
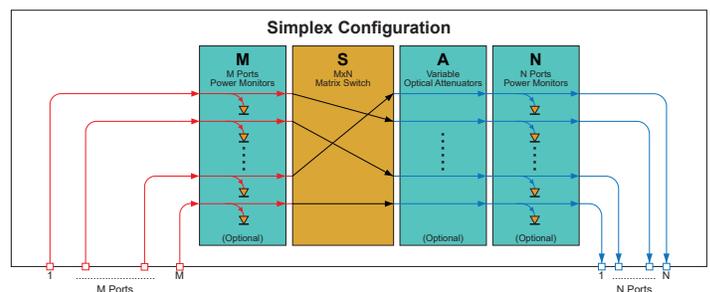
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 50°C, < 85% RH
Storage Temperature	-40 to 70°C, < 40% RH

MECHANICAL SPECIFICATIONS

Chassis Width	483 mm (19")
Chassis Depth*	762 mm (30") 889 mm (35") 1016 mm (40")
Chassis Height	5U (with MTP/MPO-12)*

*Please consult DiCon. Depends on connectors and options.



*Switch and light path operate bi-directionally but power monitors(optical) only measure uni-directionally unless special ordered.

