

# Multimode Optical Switch Tray OST

## Multimode Optical Switch Tray

The Polatis OST family of multimode optical switch trays utilizes the DirectLight beam-steering technology, delivering high performance in a compact, fully non-blocking, multimode product.

The multimode OST can form the integral part of a resilient network, for connection management in a business continuity setting or as part of a shipboard communication system. Since there is no regeneration, no signal monitoring and no signal modulation is introduced, the OST is a secure node for carrying sensitive communications. With its low loss, very high repeatability and low crosstalk, the multimode OST is a perfect fit for testing of Fibre Channel and GigE interfaces as part of an automation strategy.

The OST is available in both symmetric (NxN) and asymmetric (MxN) port configurations, provided in a standard 19" rack mount enclosure. Users can select either 50 micron or 62.5 micron cores.



## DirectLight® Technology

All Polatis products are based on the patented DirectLight beam-steering technology, setting the benchmark for reliable, high performance switching.

Polatis also offers Fixed port and Reconfigurable single mode OST products, as well as a range of optical switch modules and standard backplane optical cards.

## KEY FEATURES

- High signal stability
- Fast switching speed
- High power handling
- Dark fiber switching
- Fully non-blocking
- Bi-directional operation
- Protocol and bit rate independent
- Ethernet, RS232 and GPIB options
- Standard protocols: SCPI, TL1, SNMP
- High repeatability
- Mode transparent

## APPLICATIONS

- Automated component test
- Automated manufacturing test
- GigE, fibre channel module test
- Secure communication networks
- Shipboard communications
- Enterprise networks
- Business continuity services
- Systems verification testing
- Intelligent traffic systems
- Optical sensor arrays

# High performance optical switch solutions

## PERFORMANCE SPECIFICATIONS

Fiber Count Designator	A	A
Fiber Type (Core/Cladding)	50/125	62.5/125
Insertion Loss @ 1310nm <sup>1</sup>	<2.5dB	<3.0dB
Insertion Loss @ 850nm <sup>1</sup>	<2.0dB	<2.5dB
Crosstalk	<-40dB	
Repeatability	<±0.05dB	
Return Loss	>30dB	
Switching Time	<17ms	
Maximum Optical Power <sup>2</sup>	+27dBm	
Switch Lifetime	10 <sup>8</sup> cycles	
Operating Temp (Normal)	+10° to +40°C, <85% RH non-condensing	
Operating Temp (Extended)	- 5° to +55°C, <90% RH non-condensing	
Storage Temp (Normal)	-40° to +70°C, <40% RH non-condensing	
Storage Temp (Extended)	-40° to +70°C, <95% RH non-condensing	
Qualification (Normal)	EN60950	
Qualification (Extended)	Designed to meet Telcordia GR63 EN60950	

All parameters are measured excluding connectors at 1310nm and 20°C with an unpolarized source after thermal equalization unless stated.

1 Measured using a 3 patch-cord method as defined in TIA/EIA-526-14A

2 Switch will operate on dark fiber

The performance characteristics of the switch trays vary according to the fiber count.

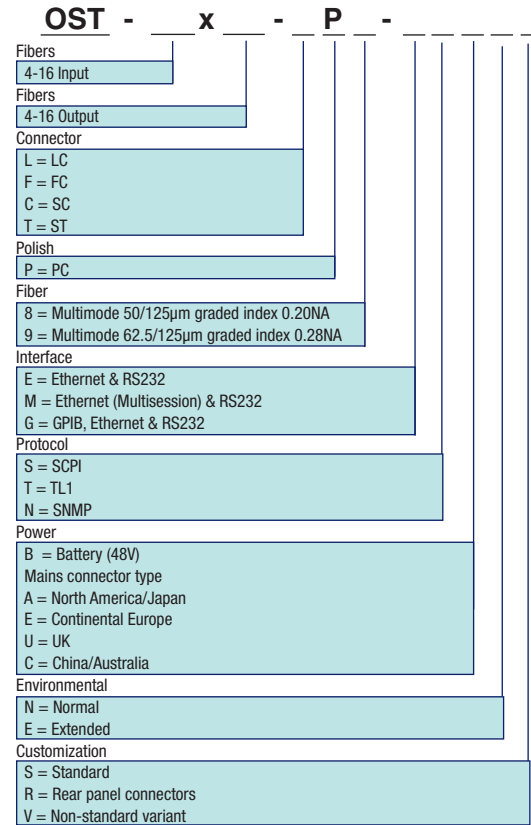
Fiber Count	04	08	12	16
04	A	A	A	A
08	A	A	A	A
12	A	A	A	A
16	A	A	A	A

## Packaging Information

Fiber Count	Connector	Tray Dimensions	Power Dissipation
8-32	LC or MU	19" rack mount	20W
8-16	FC, SC or ST	1 rack unit high	
17-32	FC, SC or ST	19" rack mount 2 rack units high	

## Ordering Information

The part numbering scheme for Polatis products is as follows:



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