Measurement Devices





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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

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PERFORMANCE SPECIFICATIONS					
Fiber Count Designator	А	А			
Fiber Type (Core/Cladding)	50/125	62.5/125			
Insertion Loss @ 1310nm 1	<2.5dB	<3.0dB			
Insertion Loss @ 850nm 1	<2.0dB	<2.5dB			
Crosstalk	<-40dB				
Repeatability	<±0.05dB				
Return Loss	>30dB				
Switching Time	<17ms				
Maximum Optical Power ²	+27dBm				
Switch Lifetime	10 ⁸ 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	Α	Α	Α
08	Α	Α	Α	Α
12	Α	Α	Α	Α
16	Α	Α	Α	Α

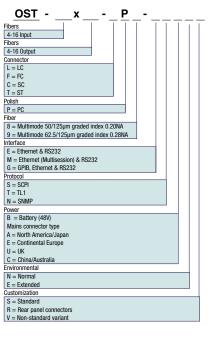
PROD-305-04-0-S AUGUST 2007

Packaging Information

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