

Optical Switch Tray OST

Optical Switch Tray

The Polatis OST family of products set the industry benchmark for performance in a compact, fully non-blocking optical switch.

The OST is an ideal platform for network-level switching, given its ultra-low loss, fast switch speed, and high reliability for fiber routing, IP over optical, and client-side switching. The ability to manage bi-directional traffic and switch dark fiber provides network operators with an ideal tool for fiber-layer monitoring.

The OST also excels in test environments, providing physical-layer connectivity for sharing of high value equipment and for automation of test sequences in design, verification, and manufacturing systems. Its instrument-grade performance ensures the maximum signal fidelity, with ultra-high stability and repeatability.

The OST is available in both symmetric (NxN) and asymmetric (MxN) port configurations, provided in a standard 19" rack mount enclosure.



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 multimode OST and Reconfigurable single mode OST products, as well as a range of optical switch modules and standard backplane optical cards.

KEY FEATURES

- Ultra-low insertion loss
- High repeatability
- High signal stability
- Low polarization dependent loss
- 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

APPLICATIONS

- Client-side OOO switching
- Hybrid OEO/OOO network switches
- Network IP over optical routing
- Network protection & restoration
- ROADM
- RF over fiber
- Remote network monitoring & test access
- Centralized PON/FTTH test capability
- Automated component test
- Network span emulation
- Centralized optical equipment sharing
- High power laser switching
- Secure communication networks

High performance optical switch solutions

PERFORMANCE SPECIFICATIONS						
Fiber Count Designator	G	Н				
Insertion Loss @ 1550nm ¹	<1.0dB	<1.4dB				
Polarization Dependent Loss	<0.05dB	<0.1dB				
Crosstalk	<-70dB	<-60dB				
Operating Wavelength Range	1260-1625nm					
Wavelength Dependent Loss	<0.3dB (C+L Band)					
Repeatability	±0.05dB					
Return Loss ²	>55dB					
Switching Time	<17ms					
Maximum Optical Power ³	+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)	Designed to meet EN60950					
Qualification (Extended)	Designed to meet Telcordia GR63 EN60950					

All parameters are measured excluding connectors at 1550nm 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. With APC connectors return loss >70dB without connectors
- 3. Switch will operate on dark fiber

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

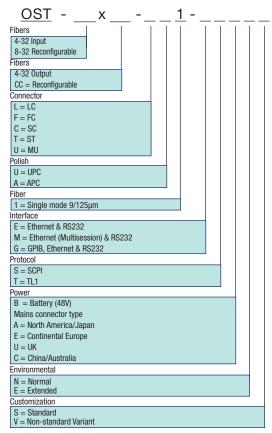
Fiber Count	04	08	12	16	20	24	28	32
04	G	G	G	G	Н	Н	Н	Н
08	G	G	G	G	Н	Н	Н	Н
12	G	G	G	G	Н	Н	Н	Н
16	G	G	G	G	Н	Н	Н	Н
20	Н	Н	Н	Н	Н	Н	Н	Н
24	Н	Н	Н	Н	Н	Н	Н	Н
28	Н	Н	Н	Н	Н	Н	Н	Н
32	Н	Н	Н	Н	Н	Н	Н	Н

Packaging Information

Fiber Count	Connector Dimensions	Tray Dissipation	Power
8-32 8-16	LC or MU FC, SC or ST	19" rack mount 1 rack unit high	25W
17-32	FC, SC or ST	19" rack mount 2 rack units high	
33-64	All	19" rack mount 3 rack units high	45W

Ordering Information

The part numbering scheme for Polatis products is as follows:



FOR MORE INFORMATION

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