Touch Screen Display
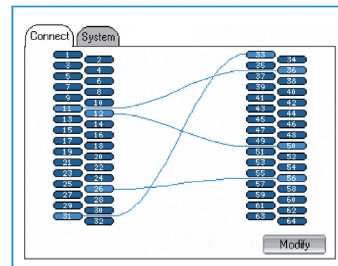# Single-mode Optical Switch Tray
OSD

Touch Screen Display OSD

Polatis introduces the powerful new touch screen line of Optical Switch Tray (OSD) products.

The OSD product enables stand-alone front panel operation of all switching functions, without the need for network connectivity or external devices. Operated through an intuitive page-driven graphical user interface, the front panel allows setting and viewing port connections, recalling stored switch connection patterns and setting the switch IP address.

The OSD product provides remote and local operation, and is ideal for both network and test environments. In production and system test environments, the OSD delivers automated, high quality test capabilities. In networks, the OSD permits central office operators the ability to locally access fiber connections for service provisioning and restoration, while maintaining control via the network operations center.

Like all Polatis products, the OSD offers the highest performance and reliability, with ultra-low insertion loss and minimal optical impairments. The full range of Polatis' optical switch matrices are available in the OSD platform.

The touch screen line of products is also available with power monitoring and VOA options, as part of the VSD product.

DirectLight® Technology

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

KEY FEATURES

- Touch screen control
- Easy to use GUI
- Remote or stand-alone control
- Ultra-low insertion loss
- High repeatability
- Low polarization dependent loss
- USB, RS232, Ethernet, GPIB interface options
- Easy visual inspection of switch state
- Dark fiber switching
- Handles high optical power

APPLICATIONS

- Production test automation
- Systems verification testing
- Interoperability testing
- Secure communications networks
- Centralized network monitoring
- PON/FTTx test and switching
- Service provisioning and restoration
- Pro-AV
- RF over fiber
- High power laser switching

High performance optical switch solutions

PERFORMANCE SPECIFICATIONS

Fiber Count Designator	G	H
Insertion Loss @ 1550nm [1]	<1.0dB	<1.4dB
Polarization Dependent Loss	<0.05dB	<0.1dB
Crosstalk	<-70dB	<-60dB
Operating Wavelength Range [5]	1260-1625nm	
Wavelength Dependent Loss	<0.3dB (C+L Band)	
Repeatability[6]	<±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, <85% RH non-condensing [4]	
Storage Temp (Normal) [5]	-30° to +70°C, <40% RH non-condensing [4]	
Storage Temp (Extended) [5]	-30° to +70°C, <40% RH non-condensing [4]	
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.
4. Maximum absolute humidity equivalent to 85% at 40C.
5. Long term storage within +10C to +35C, <40% RH to preserve display performance.

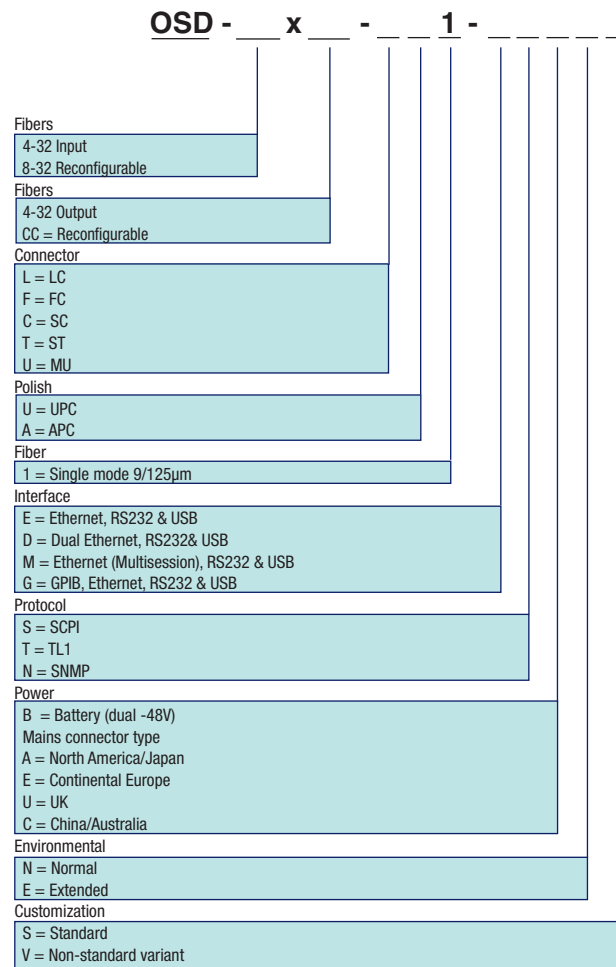The performance characteristics of the switch trays vary according to the fiber count.

Fiber Count	04	08	12	16	20	24	28	32	CC
04	G	G	G	G	H	H	H	H	-
08	G	G	G	G	H	H	H	H	H
12	G	G	G	G	H	H	H	H	H
16	G	G	G	G	H	H	H	H	H
20	H	H	H	H	H	H	H	H	H
24	H	H	H	H	H	H	H	H	H
28	H	H	H	H	H	H	H	H	H
32	H	H	H	H	H	H	H	H	H

Packaging Information

Fiber Count	Tray Dimensions	Power Dissipation
4-32	19" rack mount, 3 rack units high	22 W
33-64		35 W

Ordering Information

The part numbering scheme for Polatis products is as follows:

OSD - ___x___ - ___ 1 - ___ ___ ___ ___ ___

Fibers
4-32 Input
8-32 Reconfigurable

Fibers
4-32 Output
CC = Reconfigurable

Connector
L = LC
F = FC
C = SC
T = ST
U = MU

Polish
U = UPC
A = APC

Fiber
1 = Single mode 9/125µm

Interface
E = Ethernet, RS232 & USB
D = Dual Ethernet, RS232& USB
M = Ethernet (Multisession), RS232 & USB
G = GPIB, Ethernet, RS232 & USB

Protocol
S = SCPI
T = TL1
N = SNMP

Power
B = Battery (dual -48V)
Mains connector type
A = North America/Japan
E = Continental Europe
U = UK
C = China/Australia

Environmental
N = Normal
E = Extended

Customization
S = Standard
V = Non-standard variant

FOR MORE INFORMATION

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