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, SNMP

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

### Packaging Information

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Connector</th>
<th>Tray Dimensions</th>
<th>Power Dissipation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-32</td>
<td>LC or MU</td>
<td>19“ rack mount</td>
<td>20W</td>
</tr>
<tr>
<td>8-16</td>
<td>FC, SC or ST</td>
<td>1 rack unit high</td>
<td></td>
</tr>
<tr>
<td>17-32</td>
<td>FC, SC or ST</td>
<td>19“ rack mount</td>
<td></td>
</tr>
<tr>
<td>33-64</td>
<td>All</td>
<td>3 rack units high</td>
<td>35W</td>
</tr>
</tbody>
</table>

### Ordering Information

The part numbering scheme for Polatis products is as follows:

```
OST  x  x  1
```

- **Fibers**
  - 04-32 Input
  - 8-32 Reconfigurable

- **Connector**
  - CC = Reconfigurable
  - U = UPC
  - A = APC

- **Fiber**
  - T = Single mode 9/125µm

- **Interface**
  - E = Ethernet & RS232
  - M = Ethernet (Multisession) & RS232
  - G = GPIB, Ethernet & RS232

- **Protocol**
  - S = SCPI
  - T = TL1
  - N = SNMP

- **Power**
  - B = Battery (48V)
  - A = North America/Japan
  - E = Continental Europe
  - C = China/Australia

- **Environmental**
  - N = Normal
  - E = Extended
  - L = Conformal coating

- **Customization**
  - S = Standard
  - R = Rear panel connectors
  - U = Non-standard variant

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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.

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