

Reconfigurable VOA & Power Meter Switch Tray VST

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The Polatis VST family of products offers an ideal integration of optical switching, attenuation and power monitoring in a single, compact package. This class of switch is unique to Polatis and delivers significant cost savings for a highly versatile tool with a single, easy-to-use interface.

The Reconfigurable option provides user-definable input and output ports, providing unprecedented flexibility for applications with changing needs. Users can create any matrix up to the total fiber count, such that a 16x16 could be reconfigured to a 1x31.

Ideal for test environments, the VST provides physical-layer connectivity for sharing of high value equipment and automation of test sequences in design verification for manufacturing systems. Its instrument-grade performance ensures the maximum signal fidelity, with ultra-high stability and repeatability. VST integrated power meters permit rapid trouble-shooting across the entire test set without patching in separate meters.



The unique VOA function permits easy control of preset maximum power levels to protect sensitive downstream equipment.

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 Multimode optical switch systems, as well as a range of optical switch modules and standard backplane optical cards.

KEY FEATURES

- Integrated Variable Attenuation (VOA) option
- Integrated Power Meter (OPM) option
- Instrumentation grade performance
- Ultra-low insertion loss
- High repeatability
- Low polarization dependent loss
- High power handling
- Dark fiber switching
- Bi-directional operation
- Protocol and bit rate independent
- Ethernet, RS232 and GPIB options
- Standard protocols: SCPI, TL1

APPLICATIONS

- Automated component test
- Automated manufacturing test
- Network span emulation
- Systems verification testing
- Centralized optical equipment sharing
- Centralized PON/FTTH test capability
- ROADM

High performance optical switch solutions

Fiber Count Designator	L
Insertion Loss @ 1550nm ¹	<1.7dB
Polarization Dependent Loss @ 0 dB attenuation	<0.15dB
Crosstalk	<-60dB
Operating Wavelength Range ⁵	1260-1625nm
Wavelength Dependent Loss	<0.3dB (C+L band)
Repeatability	±0.05dB
Return Loss ²	>55dB
Switching Time	<17ms
Maximum Optical Power ³	+24dBm
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
VOA Performance	
Polarization Dependent Loss @ 20dB attenuation	<0.6dB
VOA Dynamic Range ⁴	-30 to+24dBm
VOA Resolution	0.1dB
OPM Performance	
Operating Wavelength Range ⁵	1290-1330nm + 1450-1625nm
OPM Dynamic Range ⁴	-30 to +24dBm
OPM Accuracy	+/-0.25dB

The performance characteristics of the switch trays vary according to the fiber count and the selected VOA and OPM options.

Fiber Count	Connector	Tray Dimensions	Power Dissipation
8-32	LC or MU	19" rack mount	30W
8-16	FC, SC or ST	1 rack unit high	
17-32	FC, SC or ST	19" rack mount 2 rack units high	

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