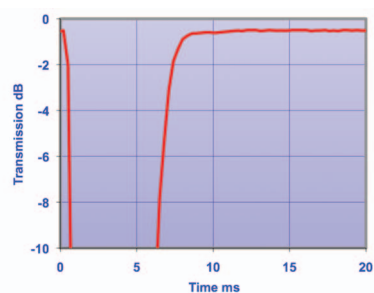


Polatis is the leading producer of ultra low-loss all-optical switches with the world's best performance characteristics and lowest power requirements. Based on patented piezo-optical DirectLight® technology, Polatis switches provide connections through a direct beam steering technology. All signals are switched in free space and remain totally in the optical domain, compared to the traditional electrical-optical conversion technique. Designed for rugged and demanding environments, Polatis is favored in applications requiring extremely high reliability. Polatis' unique modular technology provides the most cost-effective solutions in optical switching, even in small to medium sized deployments.

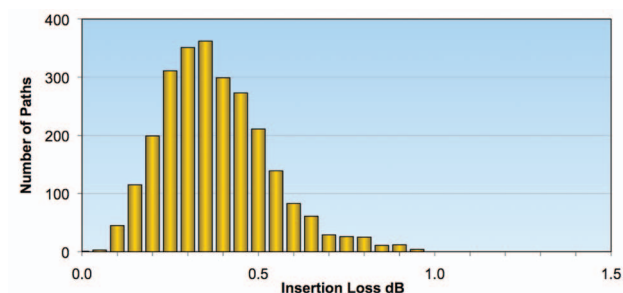
DESIGNED FOR RUGGED AND DEMANDING ENVIRONMENTS, POLATIS IS FAVORED IN APPLICATIONS REQUIRING EXTREMELY HIGH RELIABILITY AND PROVEN, MATURE TECHNOLOGY.

Benchmark Performance

Polatis products offer unparalleled optical matrix switch performance with less than 1dB insertion loss. Coupled with instrumentation grade repeatability, minimal polarization dependent loss, superb crosstalk immunity and excellent return loss, these features set the benchmark in all-optical switching. Unlike other technologies that need optical feedback to make a connection, Polatis' direct beam steering technology provides high-precision connection of optical signals with no modulation and can even switch dark fiber when no laser light is present. Polatis has over 30 granted or pending patents, and is deployed at hundreds of locations worldwide.



Clean, Fast Switching with Less than 10ms Switch Time



0.4 dB Average Loss



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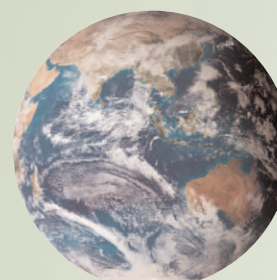
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POLATIS. ACHIEVE MORE WITH OPTICAL SWITCHING™

GO GREEN
WITH POLATIS OPTICAL SWITCHING



Power saving is critical for new network deployments. Polatis products offer extremely low power consumption solutions for managing and switching optical networks. Our low loss all-optical switching reduces the number of amplifiers and power-hungry optical-electrical-optical conversion products. Polatis' Optical Monitor Switch latches configured connections, and requires *zero* power during normal operation.

W W W . P O L A T I S . C O M

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11/08

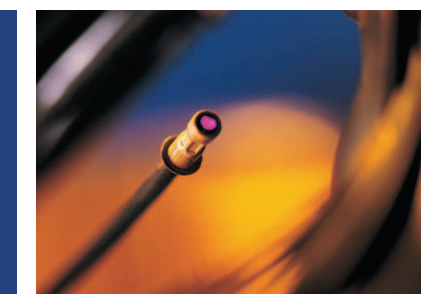


ACHIEVE MORE

WITH OPTICAL SWITCHING



W W W . P O L A T I S . C O M



POLATIS OFFERS A RANGE OF OPTICAL SWITCHES FROM MODULAR FIBER OPTIC CROSSCONNECTS TO DWDM WAVELENGTH SELECTIVE SWITCHES



Optical Matrix Switches

- Less than 1dB loss, under 10ms switching time
- NxM configurations from 4x4 to 80x80
- Singlemode and multimode fiber supported
- Power meter, attenuator and touchscreen display options



Optical Monitor Switches

- Cost effective solution for fiber monitoring
- Eco-friendly, low power consumption
- Monitor up to 80 fibers with 4 test access ports
- Bidirectional upstream and downstream connections



Compact Latching Switches

- Switching of NxM configurations up to 80x16
- No power required to maintain connections
- Proven for use in harsh environments
- Excellent crosstalk isolation



Wavelength Selective Switch (WSS)

- Add & drop any of 42 ITU wavelengths
- Up to 9 drop ports with individual attenuation
- Lowest loss in the industry, under 3dB
- Superior optical passband performance

GOVERNMENT AND DEFENSE

All-optical solutions are favored for many government and defense applications. Low-loss and high optical quality extend the range and uses of secure fiber networks.

Outstanding Reliability and Quality

With the best MTBF/FIT rates available, Polatis products provide ultra-high availability switching solutions for mission-critical applications. Polatis is built with proven and mature technology, able to withstand vibrations and rugged conditions.

Secure Networks

Polatis optical switches enhance network resilience while maintaining communications security. All-optical switch, no electrical conversion, extremely low crosstalk = no TEMPEST concerns. Your signals go where they are needed and nowhere else.

Digital and Analog Signal Switching

Optical matrix switching provides flexible routing of RF signals from multiple remote antennas. Low insertion loss preserves system signal-to-noise ratio, enabling operation with low-level signals. Excellent crosstalk immunity prevents channel-to-channel interference, maintaining signal integrity and enhancing security.

VIDEO DISTRIBUTION

Optical fiber is being used in studio networks to transmit uncompressed high definition video feeds. Polatis provides a cost-effective, high quality system to switch and manage broadcast quality video entirely in the optical domain without requiring expensive electrical conversion.

- Superior optical performance to maintain a strong signal
- Ability to handle high-power bi-directional signals
- High reliability for live broadcast applications
- Automated port switching, no more manual patch panels

CARRIER NETWORKING

Polatis optical switching provides carriers a new way to manage their networks in the optical domain without expensive and power-hungry electrical conversion.

Smart Patch Panels

Because Polatis performance is comparable to that of a patch panel, it can be used to provide a layer of flexible routing at optical distribution frames and rapid reconfiguration without risk of misconnection.

Optical Network Monitoring

Substantial savings can be realized by implementing remote network monitoring to measure link quality and localize faults. Capital outlay is minimized by sharing a common pool of test equipment.

Network Management at the Fiber Layer

Polatis provides the ability to directly manage fiber assets in both the network core and edge. Carriers can now automate the connection and provisioning of fiber directly in the optical domain, delivering high value, higher bandwidth services at lower cost.

Data Centers and Hosting

Data centers must cost-effectively manage a large number of dynamic, high bandwidth connections. Polatis optical switches are transparent to both bandwidth and protocol, eliminating the need for constant upgrades and saving expensive router ports.

TEST AND MEASUREMENT

Equipment manufacturers need to automate their product testing and allow easy sharing of expensive test instruments. Proven reliability and superior optical transparency make Polatis the benchmark for automating testing.

- Very low loss and repeatable performance
- Independence to line rate and protocol type
- Reconfigurable any fiber to any fiber switching
- Scalable port pair count from small to large systems

MARKETS & APPLICATIONS

WWW.POLATIS.COM

