

Optical Switches



etMEMS Optical Switch Series

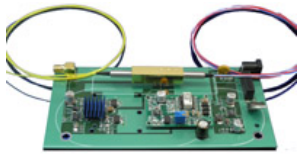
- Si micro-machined based switching cores:
- Industrial leading performance of high reliability of over billion switching cycles
- Latching or non-latching
- High value
- Excellent optical performance over a wide operating temperature range from -40°C to +85°C
- No organic materials in the light path
- Patent pending MEMSLatch™ switch is the worlds first optical MEMS that latches to the position after the electrical power is removed
- Highly stable against environmental variations of temperature and vibration
- Optional built-in driving circuit
- Actuated by 5V electrical pulses.
- Polarisation independent or maintaining

This series of switches is designed to meet the most demanding carrier class and outdoor optical switching applications.

Agiltron Optical Switch Buyers Guide

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NanoSpeed Optical Switches

The NanoSpeed™ Fiber Optic Switch family features industry leading performance:

- Ultra-fast response
- Ultra-low loss
- Wide operating temperature range from -50°C to +90°C
- Highly reliable
- No organic materials in the light path
- Polarisation independent or maintaining
- Patented electro-optical inorganic crystal switch core
- Highly stable against environmental variations
- Optional integrated driver

These switches are designed to meet the most mission-critical optical switching applications.

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CrystaLatch Optical Switch Family



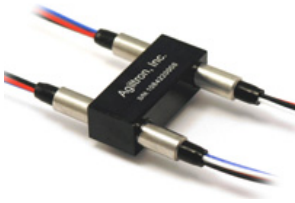
The CrystaLatch™ magneto-optical solid state optical switch family features

- Fast response
- Ultra-high reliability exceeding 100 billion cycles
- Truly non-mechanical (zero moving parts), activated by an electrical pulse inside an inorganic optical crystal
- Intrinsically stable against temperature fluctuation and fatigue
- Unique fail-safe latching capability
- Conveniently controllable by a direct low voltage signal or digitally with an integrated electronic driver featuring both TTL and RS232 interface
- Built-in isolator as well as circulator function
- Optionally, truly bidirectional
- High power version with standard 5W CW power handling available
- Polarisation independent and maintaining versions

Agiltron Optical Switch Buyers Guide

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LightBend Optical Switches

The LightBend™ micro-mechanical optical switch family offers:

- The most affordable high performance optical switch products
- Patented technology that provides a robust method of altering the light path
- High reliability and low production cost
- Configurations include 1x1, 1x2, 1x8, 2x2, and 4x4 as well as dual 1x2 and 2x2 bypass
- Dual window operation
- Fibre core from 3 to 400 μm
- Wavelength from 450 to 8000nm
- Intrinsically bidirectional
- Polarisation independent or maintaining

Agiltron Optical Switch Buyers Guide

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- Patented technology that provides a robust method of altering the light path
- High reliability and low production cost
- Configurations include 1x1, 1x2, 1x8, 2x2, and 4x4 as well as dual 1x2 and 2x2 bypass
- Dual window operation
- Fibre core from 3 to 400 μm
- Wavelength from 450 to 8000nm
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Fiber To Fiber Switch Series



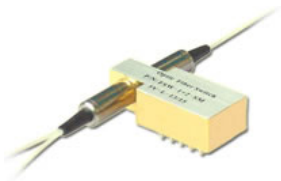
The Fibre To Fibre (formerly 'SelfAlign') Series of optical fibre switch is

- Based on a patent pending groove alignment mechanism without the need for AR coating and lenses
- Unparalleled low loss as low as 0.1dB
- Low cost
- Any fibre type (SM, MM, PM, special) and core size
- Broad wavelength operation from 300nm-2300nm
- High optical power handling up to 1W
- Large attenuation up to 60dB

[Agiltron Optical Switch Buyers Guide](#)

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[Optosun Optical Switch Series](#)

- 1x2, 1x4, 1x8, full 2x2 and bypass 2x2 configurations
- 1310, 1550 and 1310/1550 operating wavelengths