

Article Overview

Agiltron, GEZHI Photonics, and C&K Switches are leading manufacturers offering custom two-optical-electrical switch solutions with high reliability and OEM integration options.

Recommended Manufacturers

Agiltron Inc. specializes in optical switch technology with custom solutions and made-in-the-USA production. They offer switches with low insertion loss (0.2 dB), fast switching speeds (10 ns), broad wavelength compatibility (300-2400 nm), and high optical power handling (up to 50 W). Their products support pushbutton, TTL, USB, RS232, and custom interfaces, making them suitable for medical devices, quantum computing, undersea cables, and aerospace applications. GEZHI Photonics provides 2x2 fiber optic switches in both latching and non-latching types, with LC/UPC connectors for single-mode (1310/1550 nm) and multimode (850 nm) applications. Their dual 2x2 bypass opto-mechanical switches allow bi-directional optical channel routing, ideal for network protection, transmitter/receiver protection, and instrumentation. They also offer MEMS-based solid-state switches with electrical control, built-in circulators, and isolators for aerospace and military use. C&K Switches focuses on custom electromechanical switches and can integrate optical-electrical functionality for specialized applications. They provide over 8.5 million switch combinations, including tactile, pushbutton, toggle, and rotary designs, with custom interface and performance options. C&K supports industries such as medical, telecom, aerospace, and industrial automation, offering design consultation, prototyping, and long-term technical support.

Additional Options

Other manufacturers worth considering include:

- o Lightwave Link (Taiwan): Offers optical switch devices and modules, including optical bypass and line protection modules for telecom and data center networks.
- o Zhongshan Meisu Technology (China): Provides fiber optical switches, PM fiber components, and silicon photonics devices with custom design capabilities.
- o Guangzhou Ruid Ele-tech (China): Manufactures optical switches and network components with ISO9001, CE, RoHS certifications, and offers customized design, installation, and lifetime maintenance services.

Key Considerations for Custom Two-Optical-Electrical Switches

- o Switching Method: Mechanical, MEMS, or electro-optical, depending on speed, size, and power requirements.
- o Interface Options: TTL, USB, RS232, or custom control interfaces for integration with existing systems.

- o Reliability and Certifications: Look for ISO, CE, RoHS, or space-qualified ratings for high-reliability applications.
- o Customization Services: Ensure the manufacturer can provide design consultation, prototyping, and long-term support. These manufacturers provide a combination of high-performance optical switching, electrical control integration, and custom design services, making them suitable for dual-channel or two-optical-electrical switch applications in advanced networking, industrial, and scientific environments.

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Fiber Optic Switch is an optical device that allows the routing of optical signals from one or multiple input fibers to one or multiple

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MEISU fiber optical switch is an ideal optical component for OADM, OXC, system monitoring, and optical line protection. They can be

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Specializing in the production of mechanical optical switches, MEMS 1xN optical switches and magneto optical switches with low

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Carling Technologies offers one to four pole switches in numerous single throw and double throw maintained and momentary

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Custom Manufacturer Two-Optical-Electrical Switches

of

Silicon-based integrated optical switches, which are an essential part of optical integrated

C& K is now a part of Littelfuse, inc. C& K offers the largest portfolio of electronic switches and is the most

Optical switches are photonic devices that control the flow of light. A wide range of switch technologies are used, with widely varying

Manufacturer of fiber optics and related instrumentation, components, and assemblies for spectroscopic and laser delivery

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