

Article Overview

Domestic fiber optic switches offer versatile, high-performance solutions for industrial, commercial, and secure optical network applications, with options ranging from compact 1x2 switches to large NxM MEMS-based matrices.

Key Domestic Manufacturers and Products

Versitron provides a wide range of fiber optic network switches suitable for 10Base, 100Base, 1000Base, and 10 Gigabit networks. Their products include managed and unmanaged switches, industrial and commercial grades, PoE support, and SFP technology. Port counts range from 4 to 52, and modular options like the Pick-A-Port switch allow flexible network expansion. All products carry a lifetime warranty and support seamless Ethernet-to-fiber conversion. Sercalo Microtechnology specializes in MEMS-based co-axial fiber optic switches, available in 1xN, 2xN, and NxM configurations. These switches are non-latching, bidirectional, and offer low insertion loss (0.4-2.5 dB) and high crosstalk isolation (up to 60 dB). They are suitable for telecom, optical network switching, instrumentation, and test applications. Variants include standard SC, miniature mSC, ribbon-compatible rSC, and bare optical bSC, with NxM matrices supporting up to 2x540 ports. OZ Optics offers turnkey, rack-mountable optical switches (FOS-1000 series) with built-in electronics and touch-screen control. Configurations range from 1x4 to 1x36, with dual independent switches possible in one rack unit. These switches use singlemode 9/125 um fiber, cover 1250-1670 nm wavelengths, and provide low insertion loss and high channel isolation, leveraging mature MEMS technology. Fibersystem produces compact, fully optical switches such as 1x2 MM/SM, 1x2 MPO, and 1x4 MPO switches. These switches allow quick channel switching between sources or destinations without electrical conversion, maintaining protocol independence and maximum signal integrity. They are ideal for secure, robust, and high-demand environments, with control via front-panel buttons or RS232/TTL interfaces, and retain the selected channel during power outages.

Features to Consider

- o Port Configurations: 1x2, 1xN, 2xN, NxM, up to 2x540 ports for large matrices.
- o Fiber Types: Singlemode (SM), Multimode (MM), Polarization-Maintaining (PM).
- o Switching Speed: MEMS switches typically 0.5-10 ms.
- o Insertion Loss: Low, typically 0.4-2.5 dB.
- o Crosstalk: High isolation, up to 60 dB.
- o Control Interfaces: UART, I2C/SMBus, Ethernet, RS232/TTL, or front-panel buttons.
- o Applications: Industrial networks, telecom, secure optical switching, instrumentation, test and measurement, and network reconfiguration. Domestic fiber optic switches provide flexible, reliable, and high-performance solutions for both small-scale and large-scale optical networks, supporting a wide range of industrial, commercial, and secure applications.



Domestic Fiber Optic Switch Products

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OmniConverter Compact Ethernet Switches feature one or two uplink ports and up to eight 10/100/1000 RJ-45 ports, and are

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Fiber-optic Switches Author: the photonics expert Dr. Rüdiger Paschotta (RP) Expert Buyer's Guide for Fiber-optic Switches

18 Optical Switch Manufacturers in 2026 This section provides an overview for optical switches as well as their applications and

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Domestic Fiber Optic Switch Products

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