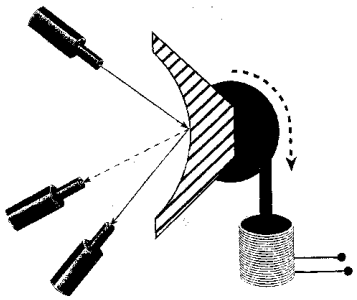
Market Central, Inc.

www.secureswitch.com

Mirror-based switches offer the highest reliability and fastest installation. Fiber optic data switches traditionally convert an optical data signal to an electronic format for switching, and then reconvert the signal back to an optical format for retransmission. This process involves complex circuitry. Products that utilize this approach often require technical procedures and advanced knowledge for configuration and installation. Market Central's mirror based fiber optic switch products operate directly on the optical signal without conversion. Reliability is greatly enhanced and installation is simplified to a true plug'n'play process. We offer this technology in single-user switches, ganged switching systems and government-validated switches used to isolate secure networks.



Fewer components = higher reliability

Our fiber optic data switches use proprietary, micro-miniature mirrors to redirect the optical data beams from a common port to one of two (or more) selected ports. The elimination of active electronics from the data paths minimizes complexity and raises the reliability of the switch dramatically, while reducing installation to the simple attachment of connectors. There is no software or other configuration needed - these switches handle all data rates and protocols right out of the box.

Fiber optic switches are available in tabletop enclosures suitable for placement on a desk, or in rack-mountable enclosures, and come in either latching or non-latching versions. Latching models retain the selected position when power fails while non-latching models "fall back" to a predefined connection when power fails or is removed. Both the latching and the non-latching models continue to pass data through the connection path even when power to the switch fails - something that no electronics based switch can do.

Market Central shipped its first mirror-based fiber optic data switch in 1986, and has shipped many thousands since that time. The earliest of these switches would still handle the latest high speed fiber optic signals of today, testifying to the resistance of this technology to obsolescence.

Features

- Micro-miniature mirrors operate directly on the optical data beam, and the solenoid-based approach used in these mechanisms has more than 100 years of proven reliability in the field.
- Exceptionally low component count enhances reliability.
- No configuration – supports any protocol, data rate or format.
- Tabletop and rack mount styles for all popular applications & environments.

Applications

- Primary / Backup switching and automatic failover switching for redundancy.
- Sharing of expensive or unique devices and peripherals.
- Highly secure Network Access Control.
- NIAP® Validated switches for data sensitive commercial and military applications.

Summary

Market Central's fiber optic switches use a proprietary mirror-based mechanism to switch an optical data beam, avoiding the complexity associated with other electro-optical switches. Fewer components are used in the switch circuit, resulting in the highest reliability. These switches combine modern micro-mirror technology with a traditional electromechanical switching mechanism to produce a sophisticated data switch that's highly reliable, simple to install, and that supports today's AND tomorrow's protocols and data rates. A special line of exceptionally high-isolation switches are also available that have been validated to meet the requirements of military and other government users whose systems are governed by security regulations that apply to classified information systems and networks.