Optical Bypass Switch

Net Optics Optical Bypass Switches protect against network failure and simplify network maintenance by ensuring network integrity during power loss. When in-line devices on a GigaBit fiber network lose power or need to be removed from the network, Net Optics Optical Bypass Switches automatically switch network traffic to bypass devices that have loss power.

The Optical Bypass Switch supports fail-open monitoring with any fiber in-line device when it shares the same power source as the in-line appliance. While the Optical Bypass Switch is receiving power, it diverts network traffic to attached in-line devices. In this state, all in-line traffic is routed directly to the device connected to the Optical Bypass Switch.

When the Optical Bypass Switch loses power, in-line traffic continues to flow through the network link, but is no longer routed through the device. This allows the network devices to be removed and replaced without network downtime. Once power is restored to the Optical Bypass Switch, network traffic is seamlessly diverted to the in-line device, allowing it to resume its critical functions.

All network and monitoring cables necessary for plug-and-play deployment are included.

Passive, Secure Technology

- Fail-open monitoring with any GigaBit fiber in-line appliance at speeds at 1000 Mbps
- Increased reliability on critical network links
- High-speed optical switching with minimal insertion loss

Ease of Use

- LED indicator shows power status
- Front-mounted connectors support easy installation and operation
- Silk-screened application diagram illustrates all connections for easy deployment
- Optional 19-inch rack frames holds two Bypass Switches
- Tested and compatible with all major manufacturers' in-line monitoring devices

Technical Specifications:

Operating:

Operating Temperature: 0°C to 40°C
Storage Temperature: -10°C to 70°C
Relative Humidity: 10%min, 95% max, non-condensing

Mechanical:

Power Supply:
Input: 100-240V, 0.5A, 47-63Hz
Output: 5V 2.4A
Dimensions: 1.25" high x 6.0" deep x 6.5" wide

Splitter:

Fiber Type: Multimode: Corning 62.5/125µm

Split Ratio	Typical Insertion Loss	Max Insertion Loss
NetA - NetB	0.75 dB	1.25 dB
MonA - MonB	0.75 dB	1.25 dB
NetA - MonA	0.75 dB	1.25 dB
NetB - MonB	0.75 dB	1.25 dB

Fiber Type: Singlemode: Corning 8.5/125µm

Split Ratio	Typical Insertion Loss	Max Insertion Loss
NetA - NetB	0.6 dB	0.8 dB
MonA - MonB	0.6 dB	0.8 dB
NetA - MonA	0.6 dB	0.8 dB
NetB - MonB	0.6 dB	0.8 dB

Connectors:

Monitoring Ports: (2) Duplex SC connectors
Network Ports: (2) Duplex SC connectors

Certifications:

Fully RoHS compliant

Part Number	Description
BPO-SX	Multimode Optical Bypass Switch
BPO-LX	Singlemode Optical Bypass Switch
RK-2	Two-Slot Rackmount Frame

All products include a 1 year manufacturer's warranty. An additional 1 or 2 year extended warranty may also be purchased.

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