

FIBERCONNECT FEATURES AND BENEFITS

- Automated connections are instantaneous and guaranteed
- Scalability to 640 fiber terminations or 320 duplex ports per chassis
- Port speed and protocol flexibility from <1Mbps to >80Tbps
- All-optical non-blocking switch fabric
- High System reliability; MTBF > 37 years
- Ultra-low power consumption of 150 Watts per fully loaded system
- Circuit confirmation and tracking via software
- Ultra-low latency (<10nsec typ) for time sensitive applications
- Optical power monitoring per port to monitor potential fiber outages
- Remote configuration using web-based GUI, CLI, and/or TL-1

CONSERVE TIME

- Moves, adds or changes
- Planning or troubleshooting
- Record keeping

INCREASE UTILIZATION

- Data center equipment
- Test and monitoring tools
- Personnel productivity

SAVE MONEY

- Capital expenses
- Operating expenses
- Power, space, and cooling

ONPATH PARTNER PRODUCTS FiberConnect.

**FAST. PROTOCOL-INDEPENDENT.
ALL-OPTICAL.**

The FiberConnect is an all-optical switching system that automates and secures data center and test infrastructure.



The platform is designed and manufactured by CALIENT Technologies, and integrated, sold and supported by ONPATH Technologies, as part of the Universal Connectivity System portfolio of solutions. The FiberConnect helps network managers conserve time, increase utilization, and save money compared to manual patching or complex mesh switching architectures.

The FiberConnect streamlines optical fiber management and enables remote troubleshooting and rapid deployment of new optical connections or services.

The FiberConnect reduces costs because it enables network managers to centralize operations, activate services and troubleshooting remotely. Based on these remote capabilities, FiberConnect also provides greater reliability and efficiency when it comes to moves, adds, and changes. With the increasing demand for high speed transmission in data centers and large test infrastructure, all-optical switching is a logical choice because of its fast speed, protocol independence, and low power consumption.

APPLICATIONS

The FiberConnect, platform solves connectivity and monitoring challenges for a variety of high-performance applications:

- Cloud network infrastructure
- Network monitoring and provisioning
- Test automation
- Cyber Security

ONPATH PARTNER PRODUCTS FiberConnect

FAST

The FiberConnect is an ultra-fast switching solution for the highest speed optical networks. The throughput latency is limited only by the speed of light and is typically less than 10nsec. The platform enables the management and connection changes of all fiber cross-connections via a web-based graphical user interface – from any location anywhere in the world. Switching times are less than 20ms across any path in the system.. It also supports any line speed per port, from slow analog signals to multi-Terabit transport systems.

PROTOCOL-INDEPENDENT

The FiberConnect system is truly protocol independent. Beyond the capabilities of multi-protocol systems that support many different types of protocols, this platform is fully independent to any singlemode optical signal of any speed and any formatted protocol. This enables the FiberConnect to switch traditional interfaces, such as 8G Fibre Channel, 10GbE, and OC-192, as well as newer and higher-speed systems with 16G FC, 40 and 100GbE, SONET, SDH, and OTN, as well as specialty protocols such as optical analog, optical RF, and wavelength division multiplexing.

ALL-OPTICAL

The all-optical FiberConnect is built on a 3D MEMS technology that offers the ultimate in flexibility, scalability and performance. It delivers Petabits of affordable switching capacity in a low profile form factor with only 150 Watts per fully-loaded chassis. The FiberConnect is a future-proof solution that supports any of the speeds and protocols available today as well as those of tomorrow. It also enables transparent throughput of WDM and Raman or Erbium amplified optical signals. Augmenting a traditional data center architecture with a reconfigurable circuit-switched optical network introduces additional capacity that can relieve some of its inherent bottlenecks.

SYSTEM	PORT* CAPACITY	FIBER CAPACITY
FC-320-320	320	640
FC-160-160	160	320

TABLE 1. Product ordering options.
*Ports are full-duplex pairs of individual fibers

FIGURE 1.
320 x 320
3D MEMS
Optical
Switching.

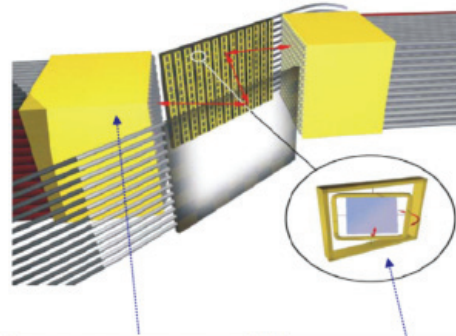


FIGURE 2.
Collimator
Lens Array
and MEMS
Element.



FIBERCONNECT FEATURES AND BENEFITS

- Modular; grow in increments of 8 connections with Soft Patch Cords
- High-density up to 1920 fiber terminations per rack
- Affordability: Same cost as present mode of operation, low first cost
- Reliable, data center-class redundancy, proven performance
- Simple to install, integrate and use: GUI-driven, EMS-ready
- Flexible; fits 19-inch, 23-inch and ANSI/ETSI racks
- Low loss - 1.75 dB typical insertion loss

THE ONPATH ADVANTAGE

ONPATH Technologies is the leading provider of scalable connectivity and monitoring solutions for high-performance networks. ONPATH's Universal Connectivity System and HorizON Software deliver an advanced platform that automates and secures data center and test infrastructure to help network managers conserve time, increase utilization, and save money compared to manual patching or complex mesh switching architectures. ONPATH currently has over one million installed ports throughout Fortune 1,000 and Government customers. Contact us today for an engineering application review or network consultation.



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