Product Briefing

FSX Series – Electronic Fiber Crosspoint Switch

The FSX electronic crosspoint switch is CORNET's latest addition to a successful series of high speed, any-to-any crosspoint switches. The optimized FSX is a single, switch-solution for both single-mode and Multimode Fiber environments. Supporting speeds from DS –1 to OC 12, the FSX is perfect for a variety of environments including SONET, ATM, LAN and digital Video networks.

A Fully Automated Alternative To Manual Fiber Patch Panels.

With the FSX, gone is the need to manually reconfigure fiber circuits with patch cords since all connections are made electronically. Automation makes the Fiber infrastructure less susceptible to failures caused by excessive repetitive handling – virtually eliminating the cost and delay of repairing broken fibers.

The FSX provides network managers with a remotely-controllable physical-infrastructure eliminating the need to dispatch a technician to the field. Functions provided by the FSX include: non-intrusive monitor access, out of service test access, fall back switching, distributed connectivity, remote site management, and single-mode to multi-mode conversion.

The FSX switching system consists of two basic components: the Fiber Switching Engine and an FCU. The FSX design permits circuits to terminate directly into the Fiber Switching Engine or via the FCU be distributed throughout the data center.

The FSX is sized to start at 32 ports expandable to a maximum of 1000 ports within a single switch. Increased capacity is achieved by combining multiple switch engines to address virtually an unlimited number of ports. On-line expansion of a single switch is accomplished smoothly without disruption to existing circuits in increments of four ports.

Reliability Through Advanced Redundancy

The FSX offers the most advanced redundancy available today in any matrix switch solution to meet the need for ever increasing network reliability.

Power supplies, control processors, and crosspoint switch cards are fully redundant. The end result: ***no single point of failure to an active component will affect more then one port card,*** (which is almost always a single port).

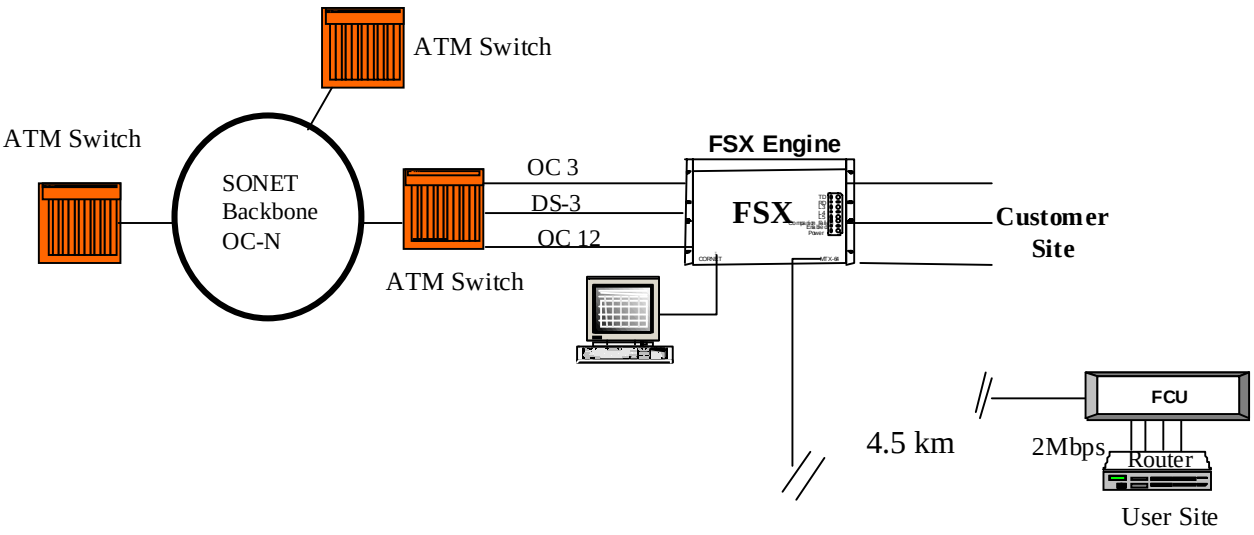
More importantly the FSX performs a series of background diagnostics that continually tests all crosspoints in the switching system. Upon detecting a faulty crosspoint, the FSX notifies the operator and automatically switches to the redundant switch card. This testing ability ensures the integrity of the switching fabric and provides proactive notification of failures to any crosspoints.

Simplicity of Maintenance and Control

The FSX switching system is designed to simplify installation and servicing. Auto-generated databases, self-learning port cards, and comprehensive background tests make installation a streamlined and controlled process. The FSX configures port cards through software commands virtually eliminating all hardware jumpers.

CORNET's CorScan management software controls both the FSX as well as CORNET's popular MTX series. Running on a Windows NT Server platform, CorScan is fully integrated with a variety of SNMP-based control platforms including HP Openview and Netview 6000. CorScan provides an intuitive, GUI to manage the switching platform and drive all switching functions. User defin-

able information fields and activity logs, provide an easily retrievable inventory of current configurations, connection lists and equipment details. Remote Client software is available to run on a variety of client platforms, including Windows NT, 95 and UNIX workstations. These clients may be distributed throughout an IP network, allowing network managers to establish virtual support centers whereby any authorized technician can access the switching resources regardless of time or place.



APPLICATION EXAMPLE: ATM TEST ACCESS

In summary, the FSX enables Network Managers to:

- Support single-mode and multi-mode in the same chassis
- Enhance control and management of the physical Fiber infrastructure.
- Perform individual or logical group switching of any attached device for disaster recovery or backup switching
- Provide a cable extension service for remote devices including equipment
- Support interfaces at speeds up to 1.2 Gbps
- Share existing network support tools more effectively
- Make most efficient use of available manpower to support the data center resources
- Automate local and remote test/monitor access.
- Integrate switch control and testing into a common SNMP based network management platform such as HP Openview or Netview 6000.
- Fiber conversion for single mode to multi-mode
- Conversion from Coax to Fiber

CORNET Technology INC
6800 Versar Center, #216
Springfield, VA 22151
(703)658-3400
(703)658-3440
www.cornet.com
8/4/98