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FST-2802 TestPad Gigabit Ethernet Services Module

Test the Fibre Channel Services



Highlights

- Full line rate traffic generation to test 10/100/1000 Mbps Ethernet services
- Ability to test 1.0625 and 2.125 Gpbs Fibre Channel services at 100% wire speed
- Dual-port capability for Ethernet and Fibre Channel traffic generation
- Enhanced BER Testing at Layer 1 and Layer 2 for Ethernet and Fibre Channel circuits
- VLAN protocol verification and traffic prioritization testing
- Variable traffic load characteristics to measure the true performance of the link
- Loopback frame generation to loop the far-end test instrument automatically
- Field-swappable GBIC interfaces that adapt to varying needs
- Graphical remote control feature via analog modem and/or Ethernet LAN access
- Easy-to-use graphical interface to minimize the training requirements



In today's marketplace, Ethernet and Fibre Channel (SAN) services are the focus of metropolitan area network data offerings. Fibre Channel networking technology is used to link storage systems and servers, and the storage industry is experiencing significant growth. By enabling Ethernet and Fibre Channel testing (both 1.0625 and 2.125 Gpbs) on the FST-2802, service providers are able to turn-up and verify both set of services from the same test instrument, using the existing workforce with minimal training. In addition, the enhanced BER testing capability enables technician to stress test the layer 1 (physical layer) and layer 2 using a wide range of stress test patterns. Moreover, the dual port feature enables service providers to simultaneously stress two circuits with the full line rate traffic, and perform bi-directional monitoring of Ethernet and Fibre Channel circuits to verify that the network can support reliable communications.

The FST-2802, a member of the TestPad family of products, is a rugged, battery operated test instrument that enables field technicians to turn-up and maintain Ethernet and Fibre Channel (SAN) services. The testing capability of the FST-2802 ranges from verifying end-to-end connectivity and throughput, to performing detailed link statistics, BER testing and round-trip delay measurements. The easy-to-use graphical interface facilitates technicians with limited Ethernet or Fibre Channel testing experience to verify performance parameters and ensure that the services conform to service level agreements (SLAs). The graphical remote control feature enables for remote testing utilizing various connectivity options, such as analog modem and/or Ethernet access.

Applications

Connectivity test

The FST-2802 enables users to ensure physical layer integrity and verify end-to-end connectivity of the circuit by establishing an end-to-end link. The user-configurable auto-negotiation capability on the FST-2802 makes this instrument compatible with any installed Ethernet interface for a fast plug-and-test operation.

Throughput verification

The FST-2802 can verify error-free throughput of the Ethernet and Fibre Channel link by generating respective traffic at a specified bandwidth. With the functionality to loop back frames at the far end, the instrument enables the qualification of the link in both directions.

Round trip delay measurement

The round trip delay (RTD) measurement is a critical parameter for delay-sensitive applications such as video on demand, and voice over IP or storage network applications. Using the FST-2802, it is possible to verify Ethernet and Fibre Channel links' round trip delay. This will ensure that the link conforms to the customer's SLAs. In addition, in Fibre Channel networks the round trip delay measurement is a critical measure of link's capability to transport delay-sensitive applications.

Bit Error Testing

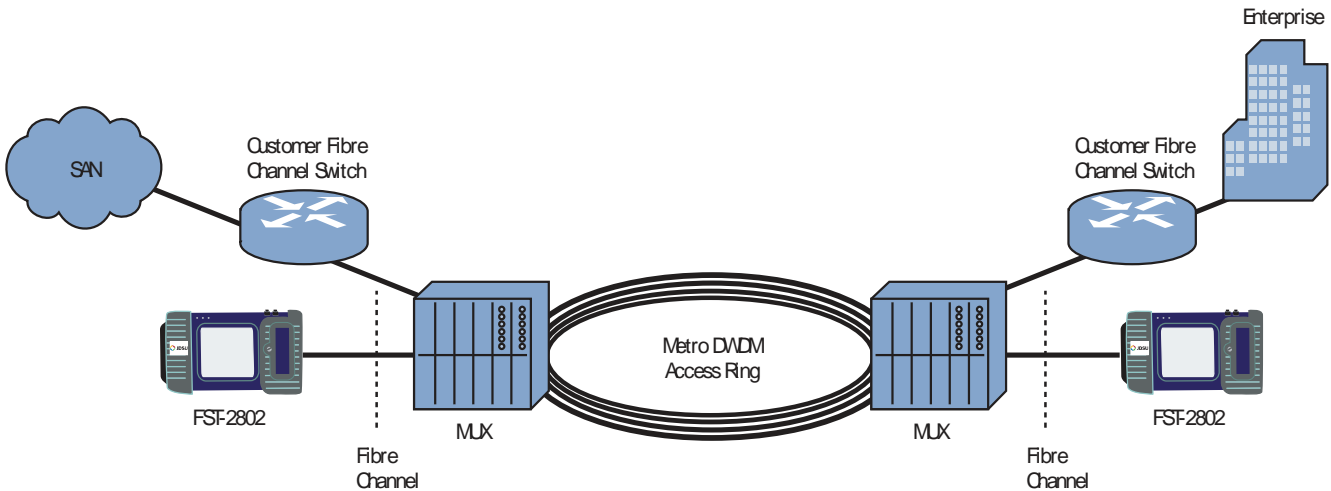
The FST-2802 features the BER testing at both layer 1 (physical layer) and layer 2 of Ethernet and Fibre Channel circuits using a variety of stress test patterns designed specifically for these technologies. According to physical layer specifications, Ethernet and Fibre Channel circuits should conform to BER of 10⁻¹² or better.

Full Line Rate Bi-directional Testing

The dual-port feature of the FST-2802 enables service providers to simultaneously stress two circuits with the full line rate traffic, and perform bi-directional unobtrusive monitoring of Ethernet and Fibre Channel circuits to verify that the network can support reliable communications.

Service disruption measurement

The FST-2802 enables service providers to measure the service disruption of their Ethernet and Fibre Channel traffic. This measurement may be used by service providers as a troubleshooting benchmark.



Fibre Channel Testing on Metro DWDM network

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