Xgig® 16G Fibre Channel Analyzer

High-Performance Protocol Analysis for 16G Fibre Channel

The industry-leading Viavi Solutions Xgig product family for distributed protocol monitoring, analysis, and testing provides a unique platform offering advanced multi-protocol, multi-application, and multi-channel capabilities. Xgig helps storage equipment manufacturers, field service engineers, and data center IT professionals to overcome the complex design, deployment, and maintenance challenges typical of today’s high-speed serial Storage Area Networks (SAN) and subsystems.

The Xgig platform is a versatile and comprehensive solution for generating, testing, and analyzing live traffic across all major high-speed storage protocols. The Xgig chassis hosts up to four blades capable of testing and analyzing different protocols such as FC, Internet Small Computer System Interface (iSCSI), Serial Attached SCSI (SAS), Serial Attached Technology Attachment (SATA), Gigabit Ethernet (GigE), and Fibre Channel over Ethernet (FCoE). Xgig is the only solution on the market that supports end-to-end testing of multiple protocols, multiple applications (analyzing, generation, and testing), and multiple data rates simultaneously on a single platform. This capability provides unparalleled flexibility while maximizing customer return on investment.

Xgig 16G Fibre Channel Analyzer

Viavi Xgig Fibre Channel (FC) products provide best-of-class protocol testing tools specifically for high-speed storage and networking applications. The Xgig 16G Fibre Channel Analyzer is a modular blade for the newly released Xgig 5000 platform designed for high-speed network analysis. It is the most critical tool for engineers developing and troubleshooting FC components and systems with support for Upper Layer Protocols (ULP) such as Fibre Channel Protocol (FCP), Internet Protocol over Fibre Channel (IPFC), Fibre Connectivity (FICON), SCSI, and Fibre Channel Avionics Environment (FC-AE).

Key Features

- Industry’s most powerful trace capture: Captures 100 percent at any line rate up to the maximum data rate of 14 Gbps (the real wire rate) backed by the largest trace buffer in the industry with 2 GB per SFP+ port
- Each blade can serve as a protocol analyzer, jammer, and load tester through a simple software configuration without changing any hardware
- Cascading multiple Xgig systems together can group up to 64 time-synchronized ports for comprehensive system analysis and testing
- Industry’s highest time stamp resolution (5 ns)
- 4-port configuration

Applications

- Accelerates design and manufacture through accurate, fast, and comprehensive analysis of next-generation 16 FC storage and networking equipment
- Improves overall equipment and network performance of high-speed SAN and data center infrastructure
- Effectively maintains, provisions, and accesses storage devices such as hard drives, file servers, and associated storage equipment
- Validates crucial development, integration, and interoperability between mixed protocol and legacy SAN environments
Additional product features include:

- Internal and external cross triggering
- Arm-sharing across all types of ports in a link
- Powerful trace filtering and searching
- Maximum number of time-synchronized channels
- Tx/Rx optical power reading
- Decode and Expert support based on ratified 16G FC standard
- SFP Support: 16G FC multimode and single-mode SFP+

**Analysis Software Suite**

The Xgig 16G FC Analyzer streamlines resolution of events that cause performance impairments and enables users to design, implement, test, and evaluate reliable and robust FC components and subsystems. As a single-platform tool, the Xgig Analyzer also provides a consistent user experience which is crucial for most FC tester users, allowing them to immediately begin testing designs based on new FC technology.

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**Specifications**

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<th>Indicators</th>
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<td>4 SFP+ connectors</td>
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**Minimum System Requirements**

- **Windows 2003, Windows XP or Windows Vista Ultimate/Business operating systems**
- Small configuration (sync group of up to 16 ports):
  - Pentium III 800 MHz; 512 MB RAM min/1 GB preferred,
  - 40 GB disk space, 100/1000 Mbps Ethernet
- Large configuration (sync group of over 16 ports):
  - Pentium 4 with 2 GHz or faster processor; 1 GB RAM min/2 GB RAM supported; 60 GB disk space; 1000 Mbps Ethernet

**Trace Buffer Size**

- Maximum 2 GB per port/ 8 GB per blade

**Function Support**

- Analyzer, Jammer, Load Tester
- Extensive views