

Data Sheet

VIAVI

Xgig 1000

24 Gbps SAS Solution

The VIAVI Xgig® 1000 24 Gbps Analyzer allows for simultaneous protocol analysis and error injection for Serial Attached SCSI (SAS) protocol traffic at all layers of the stack. It is the leading and the most powerful monitoring and analysis system available for SAS applications. This solution supports 24/12/6/3 Gbps SAS.

The VIAVI Xgig 1000 24 Gbps SAS Analyzer is a versatile, state-of-art solution for capturing and analyzing live SAS traffic employing a stand-alone hardware architecture. The new front-to-back airflow allows for standing the solution on end, minimizing the overall footprint in desktop testing. This chassis supports 24 Gbps SAS with dual mini-SAS HD receptacles, allowing bidirectional analysis of single and wide-port SAS links. Each port can have 32 GB RAM to allow for up to 256 GB of tracing capability.

Non-Intrusive Monitoring

Different applications have different signaling sensitivities. For minimal signal impact, the Xgig 1000 24 Gbps Analyzer offers an analog pass-through mode that provides a truly passive, high-impedance, low-latency SAS connections. The analyzer passes every bit through exactly as it was received, enabling users to see the same signal that the device under test sees. While this capability has always been part of Xgig Analyzers, VIAVI has refined and improved the Xgig 1000 24 Gbps SAS Analyzer to address the specific characteristics of this protocol at high speeds.

Key Features

- Fully integrated, stand-alone system with multi-functions (Analyzer and Jammer)
- 256 GB of Trace Memory per system
- Supports Capture of:
 - Link training
 - OOB and speed negotiation
 - SPL packet
 - 128/150b encoding, 24G only
 - 150b view (SPL Packet) and 128b view
 - Correctable & uncorrectable FEC-enabled traffic (Reed Solomon) with counters for correctable & uncorrectable FEC SPL frames
- API for test automation



Multi-Function Support

The multi-function capability of the Xgig 1000 enables users to leverage a single solution blade to perform several functions for dramatic capital expense savings. In addition to capturing and analyzing traffic, SAS blades support traffic jammer capabilities accessible by toggling software switches. Users can manage these multi-function capabilities effortlessly through the Xgig 1000 24 Gbps Maestro GUI software that allows them to inject (jam) errors into live traffic.

Enhanced Analysis Capabilities

The Xgig 1000 24 Gbps Analyzer offers a wide array of analysis capabilities, including:

- Industry's most powerful trace capabilities
- Patented search and filtering functionality
- Multi-protocol support by cascading with other chassis
- Memory segmentation to allow multiple trace captures
- Xgig 1000 24 Gbps SAS Expert, providing automatic analysis of more than 1800 metrics and 1200 analysis functions across protocols.

Advanced Automation

Many design tests and troubleshooting procedures involve complicated, repetitive processes. With both GUI and API options available, users can define scripts from simple commands to complex regression test libraries, enabling automation of the extensive capabilities that the Xgig 1000 offers.

Synchronization and Sharing

The ability to cascade up to four Xgig 1000 chassis lets users form synch groups, bringing together up to 32 time-synchronized SAS ports. Alternatively, using the Xgig 1000 port leasing model, reconfiguring the same set of hardware allows up to 16 individual simultaneous users to leverage a single test setup.

Specifications

Dimensions (Height x Width x Depth)	3.5 x 9.5 x 15.75 in (8.89 x 24.13 x 40.01 cm)
Power Supply	100 to 240 V, 50 to 60 Hz
Power Consumption	200 W maximum



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