



# Viavi Solutions™ Xgig® Analyzer is Certified on VCE Vblock™ Systems



The Xgig Analyzer combines hardware and software to test product performance by capturing data and intelligently organizing it for quick and easy troubleshooting. Xgig is a powerful protocol analysis tool for Fibre Channel, Gigabit Ethernet, and SAS/SATA links operating at various data rates.

The Vblock Ready Xgig platform can be used to monitor local area network (LAN) and storage area network (SAN) performance all the way to the storage array. Xgig is a valuable pre-deployment and production test and troubleshooting asset for data center operators deploying Vblock platforms.

Vblock Systems are pre-integrated virtualized computing, storage, and networking components designed and manufactured by VCE in a joint venture between Cisco, EMC, VMware and Intel.

## Increased Need for Testing and Troubleshooting Solutions

The consequences of simplifying virtualized data center infrastructure deployment now shifts the complexity of these advanced virtualized environments to troubleshooting and monitoring. For instance, insight into input/output (I/O) performance is critical for diagnosing and correcting issues resulting from CPU utilization, network I/O rates, and disk I/O rates that require the capture of specific low-level data in real time, driving the need for access to low-level protocol analysis and persistent monitoring.

In addition, storage I/O performance is a key aspect in overall application performance and availability, and it often remains overlooked. Virtual machines (VMs) may create periods of very high disk I/O, creating high resource contention that impacts VM performance and the applications they host. This impact to performance can result in random I/O patterns creating the potential for dynamic points of congestion.

I/O response time is a critical indicator of storage-network performance, and high response times can affect application performance. Similarly, understanding I/O utilization is important when troubleshooting performance problems, particularly in virtual environments with frequently changing workloads. Additional key performance indicators (KPIs) include response time, queue depth, average disk queue length, average I/O size in kilobytes, input/output operations per second (IOPS), throughput in megabytes per second, and read/write completion percentages.

## Viavi Xgig is Vblock Ready Certified

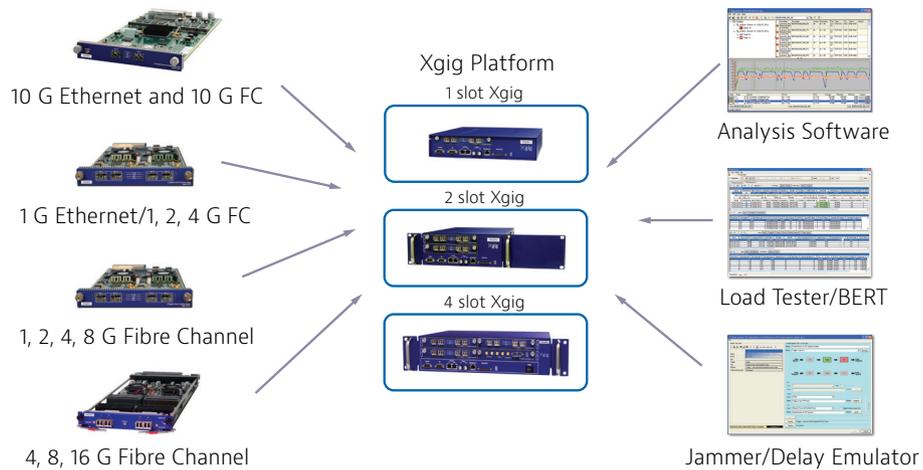
The Viavi Xgig is now certified Vblock Ready. The Xgig Analyzer combines hardware and software to test product performance by capturing data and intelligently organizing it for quick and easy troubleshooting. Xgig is a powerful protocol analysis tool for Fibre Channel, Gigabit Ethernet, and SAS/SATA links operating at various data rates.

The Xgig provides a comprehensive set of debugging and analysis tools for analyzing traces and gaining access to performance metrics, such as:

- IOPS by LUN
- Min/max/avg exchange completion time
- Read and write MBps by LUN
- Frames per second by LUN
- Errors by LUN
- Packet-level visibility, including all errors and primitives

The Xgig Analyzer can be configured in several ways to interface with Vblock Infrastructure Platforms including:

- Inline/point-to-point mode connects the Xgig between two switches.
- Optical tap integration uses a Viavi TAP to split a signal at a source point and transmits one of them to the Xgig.
- Mirror mode uses a Cisco SPAN (switched-port analyzer) to direct packets coming into a port, duplicate them, and send them through another port connected to an Xgig.



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