

VIAVI

Xgig[®] 5K8 Analyzer Platform

for PCI Express[®] 5.0 early eco-system enablement

Provides full-speed 32Gbps data capture, enabling detailed functional and performance analysis of PCIe protocol



The Xgig 5k8 platform provides protocol analysis for PCIe 5th generation traffic at all layers of the stack. It supports link widths up-to 8-lanes, and link speeds to 32 GT/s.

The Xgig 5K8 Protocol Analyzer expands the family of Viavi protocol analysis products targeting early PCIe 5.0 eco-system chip development companies. In today's complex, multiprotocol environments where integrated analysis with other interfaces such as Ethernet, SAS, and FC are required, the Xgig 5K8 connects with other Viavi protocol analyzers designed for these protocols to provide time correlated multi-protocol views.

The Xgig 5K8 chassis has 128 GB of memory; 64GB for upstream and 64GB for downstream traffic capture. The chassis provides advanced PCIe and NVMe level trigger and search capabilities designed to reduce debug and problem resolution down time. Interposer auto-tuning greatly simplifies, and speeds system use and enables repeatable capture results.

KEY FEATURES

- GTs, PCIe 5.0 data rate operation. Fully compatible with other PCIe data rates of 2.5, 5.0, 8.0 and 16.0GTps
- Link widths up to 8-lanes
- 128GB memory (64GB Up Stream and 64GB Down Stream)
- Memory segmentation for capture of multiple traces
- Host-Client connection for remote debugging using Ethernet or local debugging using USB
- Decodes all PCIe and NVMe traffic at all layers of the stack including the TLP, DLLP, and PHY layer logic sub-blocks
- Trigger and Search events include training sequences, ordered sets, queue pairs, PRPs, Scatter/Gather Lists (SGL) etc.
- Cascade up to four Xgig captures into a single trace view
- Full support of LTSSM for PCI Express
- Field replaceable modular fan and power supply assemblies
- LED's give quick indicators of power and status
- Size (W x D x H): 17.0 x 14.5 x 2.3 in; 43.2 x 36.8 x 5.8 cm
- Weight: 15 lbs; 6.8 kg
- Power: 100 – 240 VAC, 450W maximum
- Works with Gen5 interposers for CEM x8
- Works with Gen4 interposers for CEM slots, Flying Lead probes, U.2 (SFF-8639), M.2, SFF-8674, OCulink, and others

Additional features include configuration space viewer, PCIe link performance measurements, trace view packet compression, and sideband signal triggers for PERST#, PEDET#, PEWAKE#, and CLKREQ#. Multicolored LEDs on the front panel specify Link Speed, Lane Width, and Signal Quality.

APPLICATIONS

The VIAVI 5K8 hardware chassis and complementary Xgig software tools support the latest PCIe 5.0 and NVMe specifications.

Analysis will alert the user to all protocol errors at every layer of the PCIe stack, including state and sub-state level errors within the LTSSM viewer.

When purchasing the 5K8 platform, also select an analyzer licenses, and interposers to fit your specific application requirements.

KIT CONTENTS

Item	Description	Qty
1	Xgig4K-PCIe5-X8, 4-lane chassis for PCIe 5.0	1
2	Mechanical accessory kit (includes: Cat5e and USB cables, USB recovery drive, power cord)	1
3	Rack mounting tray	1
4	Hard-shell, wheeled travel case with padding	1

ORDERING INFORMATION

Part Number	Description
Xgig4K-PCIe5-X8	8-lane, 32GTs PCIe 5.0 Analyzer Platform Chassis with 1-yr HW and 1-yr SW maintenance
Xgig4K-PCIe5-X8-H1	Optional 1-year extended hardware warranty
Xgig4K-PCIe5-X8-M1	Optional 1-year extended software maintenance warranty



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