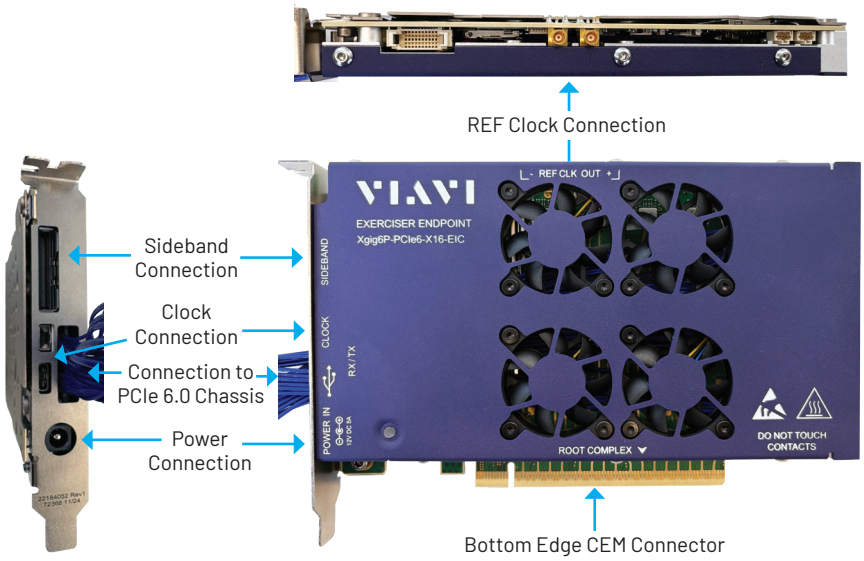
Xgig 16-lane CEM Endpoint Exerciser Test Card

for PCI Express® 6.0

Enables VIAVI Exerciser Chassis emulation of CEM PCIe 6.0 Endpoint

VIAVI Solutions Xgig® 16-lane CEM Endpoint Exerciser Test Card provides connection between the VIAVI PCIe 6.0 Analyzer/Exerciser platform and a host system under test. The CEM Endpoint Exerciser Test Card installs into a PCIe CEM slot on the host system and allows the Exerciser to appear as an Endpoint to the host system. It operates up to 64GT/s, PCIe 6.0 rate, across up to 16-lanes (bi-directional).

This Test Card uses high-speed linear signal redrivers to transmit PCIe 6.0 PAM-4 data signals between the Analyzer/Exerciser Chassis to the Host System under test. This design ensures a clean signal is delivered both to the Analyzer/Exerciser Chassis and Host DUT for reliable protocol capture and analysis with minimal tuning effort.



Key Benefits

- Supports link widths up to 16-lanes
- Operates at 64GT/s PCIe 6.0 data rates, and is compatible with PCIe rates of 2.5, 5.0, 8.0, 16 and 32GT/s
- Supplied with high-quality custom data cables for Analyzer/Exerciser chassis attachment
- Provides consistent, repeatable generation and capture of link training, equalization negotiation and other data
- Supports error injection for deep system analysis
- Supports generation/monitoring of side-band signals
- Test Card power is independent of host system. A 12V DC 5A power supply is included.
- Dimensions: 170 mm (L) x 105 mm (H) x 19 mm (W)
- Custom, exchangeable brackets enable secure chassis and endpoint card installations
- Works together with the VIAVI XGIG6P-PCIE6-X16-PF Analyzer/Exerciser chassis platform
- Supported by Xgig tool suite including Trace Control, Expert™ and Serialytics™

Applications

Working together with the VIAVI PCIe 6.0 Analyzer/Exerciser platform, the CEM Endpoint Exerciser Test Card enables debug and verification of new system hardware designs, validation of system BIOS and software, and supports manufacturing test.

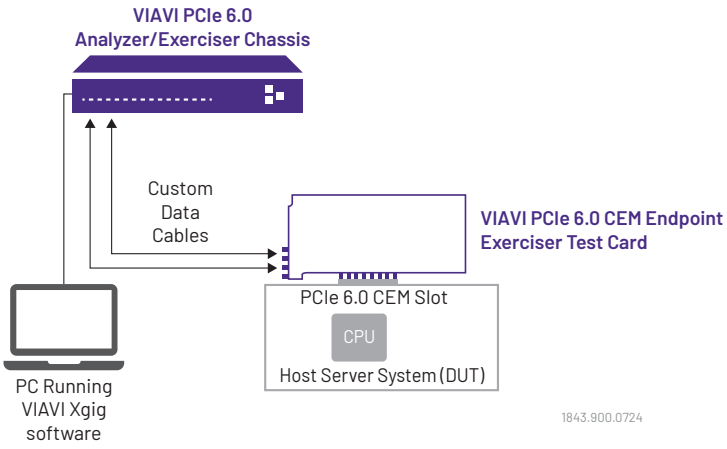
The Xgig 16-lane, CEM Test Card is inserted into a PCIe CEM slot in the host system. In this position the Exerciser appears as an endpoint card installed in the Host System. Cables connect the Test Card to the VIAVI Protocol Analyzer/Exerciser Platform Chassis.

The diagram to the right shows the Test Card's connections to the Analyzer/Exerciser Chassis when plugged into a host system.

Note that in most cases this Test Card requires an open DUT system chassis while in use.

When operating in Exerciser Endpoint mode, data is generated by the Analyzer/Exerciser Chassis and transmitted to the host DUT via the CEM Endpoint Exerciser Test Card. Additionally, the data exchange is captured from both the upstream and downstream signal paths as inputs to the Analyzer.

VIAVI offers a variety of other Interposer types for connecting into many popular PCIe system applications.



Kit Contents

Item	Description	Qty
1	Xgig6P-PCIe6-X16-EIC, 16-lane CEM Endpoint Exerciser Test Card with cables for PCIe 6.0	1
2	Sideband cable for PCIe 6.0	1
3	Power Supply	1
4	Replaceable Bracket Kit	1
5	Quick Start Guide	1

Ordering Information

Part Number	Description
XGIG6P-PCIE6-X16-EIC	Xgig 16-lane, 64GT/s CEM* Exerciser Test Card Kit for PCIe 6.0
XGIG-INTPSR-C-Hx (x=1,2,3,4)	x-year extended hardware warranty

*CEM: Card Electro-Mechanical Specification (a PCIe spec)

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