

Xgig M.2, 4-lane Interposer for PCI Express® 6.0

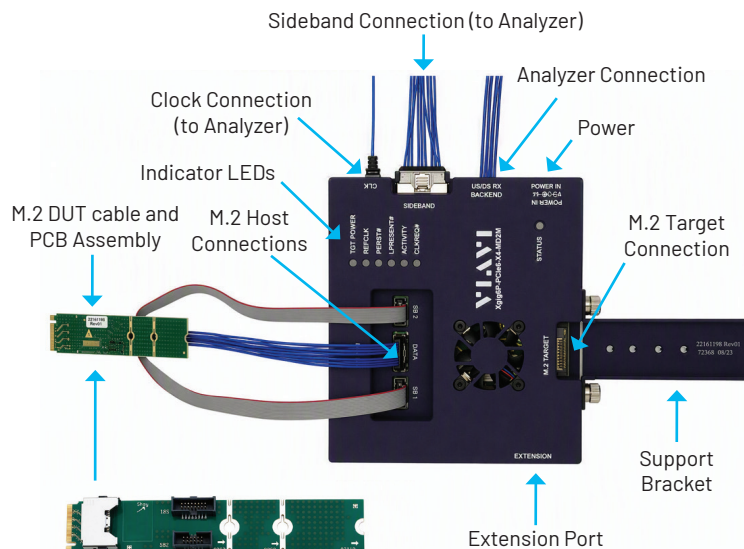
Provides a tap of host-system to M.2 PCIe SSD data signals for input to the VIAVI PCIe 6.0 Analysis System

VIAVI Solutions Xgig® 4-lane, M.2 Interposer, the Xgig6P-PCIe6-X4-MD2M, is an Active Interposer with a design optimized for M.2 SSD development. This Interposer enables protocol analysis of communication between a M.2 PCIe SSD and the host system. It supports use in server, workstation, desktop and notebook PCs, and other system types. Bidirectional PCIe 6.0 protocol data on each of 4 lanes is captured at up to 64GT/s rate for analysis. High-quality, low-loss, custom high-performance cables are supplied for connection into the VIAVI Analyzer.

This Interposer uses high-speed linear signal redrivers to buffer the system data signals ensuring a clean signal is delivered to both the Analyzer and the devices-under-test (DUT) for accurate protocol capture and analysis.

Features

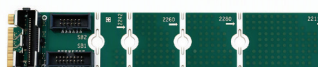
- Supports PCIe links of up to 4-lanes
- Operates at 64GT/s PCIe 6.0 data rates, and is compatible with PCIe rates of 2.5, 5.0, 8.0, 32 and 64GT/s
- M.2 PCIe SSD DUT plugs directly into the Interposer
- Supports card types 2230, 2242, 2260, 2280 and 22110
- Data path uses high-speed linear redrivers to ensure good signal capture with little or no tuning
- Supports Analyzer side-band signal capture and triggering
- Supplied with clock connectors and cables
- Interposer power is independent of host system
- A 120/220 AC in, 12V/3A DC output converter is included
- LEDs give quick indicators of power and status
- Size: (L x W x H): 129 mm x 148 mm x 34.7 mm
- Weight: 450 Grams (M.2 Interposer back-end pod)
- Works together with the VIAVI Xgig 6P16 analysis platform chassis
- Provides consistent, repeatable capture of link training, equalization negotiation and other data information
- Supported by Xgig tool suite including Trace Control, Expert™ and Serialytics™



PCBA - PCIe6 M.2 Interposer Interface Card 90° Bottom



PCBA - PCIe6 M.2 Interposer Interface Card 90° Top Side



PCBA - PCIe6 M.2 Interposer Interface Card 0° Top Side

Applications

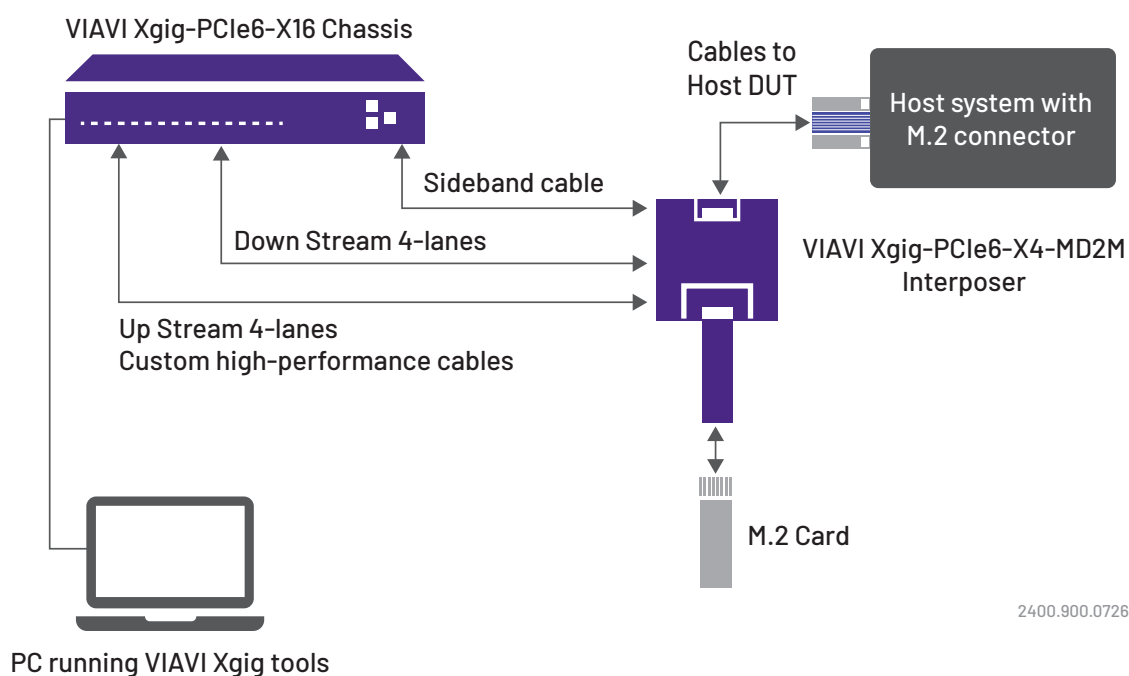
Working together with the VIAVI Xgig 6P16 analysis platform, the Interposer enables debug and verification of new M.2 PCIe SSD cards, system implementations, firmware development, validation of system BIOS and software, and for manufacturing test. It supports full decode and analysis of data traffic and link states.

To use the Xgig6P-PCIe6-X4-MD2M Interposer, first the PCIe SSD is mounted into the Interposer M.2 Card tray. Cables are attached to connect the Interposer to the VIAVI analysis platform chassis. Then the M.2 DUT cable and PCB is installed into the system under test and the cable plugged into the Interposer pod.

The block diagram below indicates the signal data path. Data flows between the host CPU and the SSD DUTs as normal and is “tapped” for use by the Analyzer.

When operating in analyzer mode, both upstream and downstream data are tapped as inputs to the analyzer ports. When operating in Analyzer/Exerciser mode, data flows through the Interposer to the DUT.

VIAVI offers a variety of other Interposer types for connecting into different PCIe system applications, including CEM slot cards, EDSFF, MCIO and others.



Specifications

Temperature	
Operational	-15 to +35° C
Non-operational	-40 to +70° C
Humidity	
Operational	Up to 85% humidity (non-condensing) at +35° C
Non-operational	Up to 85% humidity at +65° C
Electromagnetic Compliance	FCC part 15 Class A, CE Compatibility
Altitude for Operation	Storage 2000 m above sea level (max)
Altitude for Transport	12,000 m above sea level (max)
Environment Pollution	Degree 2
Power	A 120/220 AC in, 12V/3A DC output converter is included

Kit Contents

Item	Description	Qty
1	M.2 4-lane Interposer back-end pod for PCIe 6.0	1
2	M.2 DUT cable and interface card (3-included: 90° Bottom, 90° Top Side, 0° Top Side)	3
3	Custom high-performance cables	2
4	Sideband cable (to Analyzer)	1
5	Clock cable (to Analyzer)	1
6	Power brick, 120/220 input, 12V/3A output	1
7	Quick Start Guide	1

Ordering Information

Part Number	Description
Xgig6P-PCIE6-X4-MD2M	M.2 Active Interposer, 4-lane, 64GT/s, for PCIe 6.0 (includes 3 interface cards)
XGIG6P-PCIE6-X4-M2PCB90B	PCIe Gen6 M.2 Individual Interposer Interface Card, 0 deg Top (optional)
XGIG6P-PCIE6-X4-M2PCB90S	PCIe Gen6 M.2 Individual Interposer Interface Card, 90 deg Top (optional)
XGIG6P-PCIE6-X4-M2PCB90T	PCIe Gen6 M.2 Individual Interposer Interface Card, 90 deg Bottom (optional)
Xgig6P-PCIE6-X4-MD2M-H1	1-year extended hardware warranty



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