PCI Express® 6.0 x4 CEM Interposer

Key Features

- Quick and simple set-up
- Allows capturing and decoding of all PCIe traffic between host and device
- TAP 6 technology for non-intrusive Probing
- Supports SMBus
- Supports bifurcated lane testing
- Includes DUT support mechanism
- Gen6x4 Interposer supports: PWRBRK#,
  - PERST#, WAKE#, CLKREQ# sideband signals
- Supports CXL Protocol
- Supports NVMe Protocol

The Teledyne LeCroy PCI Express CEM Interposer provides a simple and easy-to-use way to probe traffic up to 64GT/s for PCIe® 6.0 based products between a host and PCIe add-in card with the next generation PCIe protocol analyzer.

Connecting this interposer to a Teledyne LeCroy Summit PCIe analyzer allows decoding and display of data flowing in both directions and across all lanes, and will display data traffic using the industry-standard CATC Trace™ data display, along with a wide range of traffic and error reports.

The PCIe 6.0 CEM x4 Interposer supports data rates of 2.5, 5.0, 8.0, 16.0, 32.0 and 64 GT/s and supports link widths of up to x4. New TAP6 acquisition technology from Teledyne LeCroy is making it possible for accurate capture at up to PCIe 6.0 data rates for protocol analysis. This is done by reducing signal integrity issues and enhancing fidelity capabilities for protocol transmission acquisition.

The PCIe 6.0 CEM Interposer will work with Summit T48, T416, M5x, T54 and T516 protocol analyzers.

The PCIe 6.0 CEM x4 Interposer is a powerful and versatile tool for all developers working on devices that support up to 64GT/s data rates in their development projects.
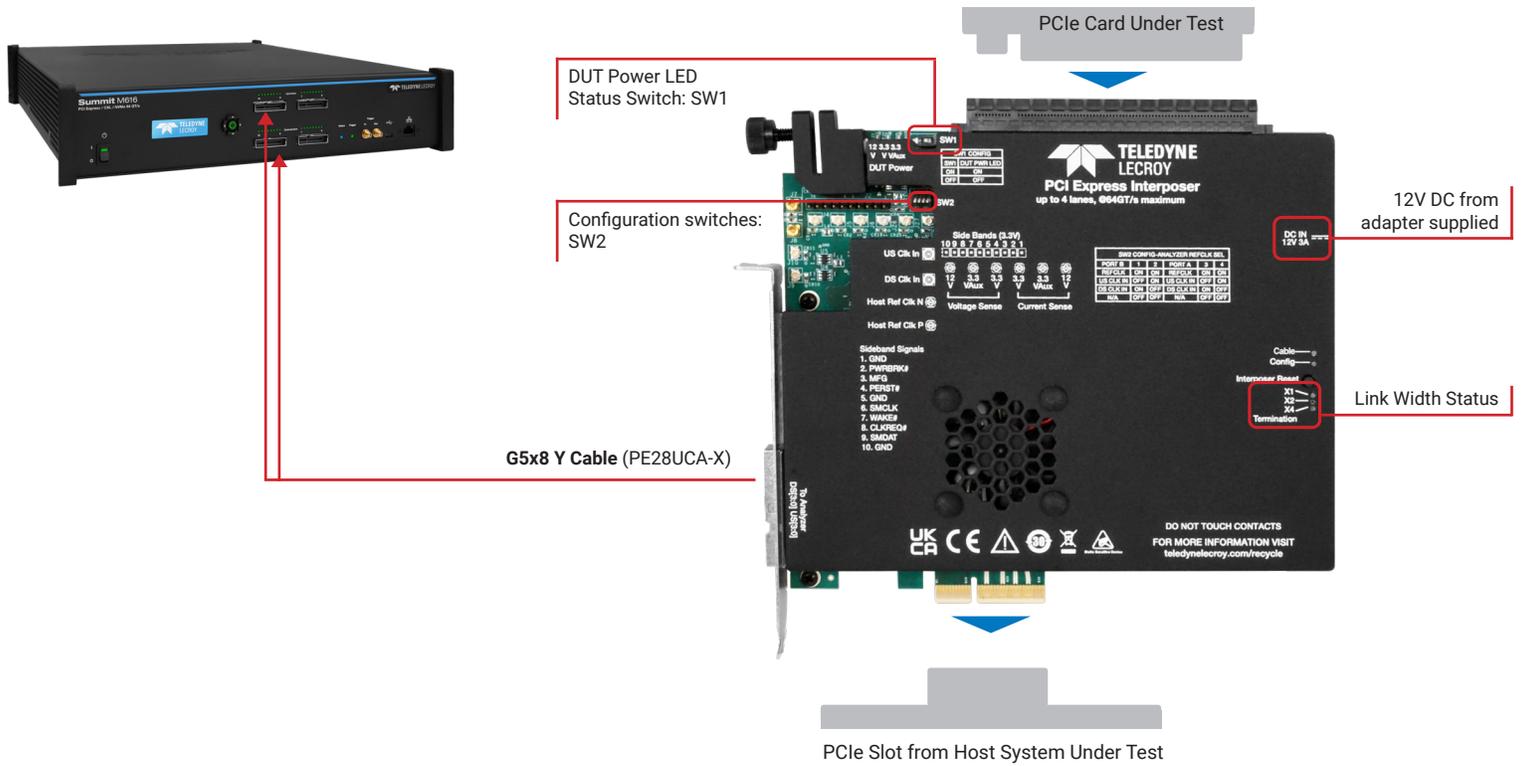
Specifications

Dimensions	169.6 x 157.3mm (6.68" x 6.19")
Link Width	x4
Data Rates	2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16.0 GT/s, 32.0 GT/s, 64.0 GT/s
Environmental	Temperature (operating): 5° to 40°C (41° to 104°F) Temperature (non-operating): -20° to 60°C (-4° to 140° F) Humidity (operating): 5% to 80% RH (non-condensing) at <=30°C, 50% max RH (non-condensing) at 40°C Humidity (non-operating): 5% to 95% max RH (non-condensing

Note: Diagram depicts x4 interposer used with various analyzer platforms. For more configuration information, see Quick Start Guide.

PCIe Card Under Test

DUT Power LED
Status Switch: SW1

Configuration switches:
SW2

G5x8 Y Cable (PE28UCA-X)

12V DC from
adapter supplied

Link Width Status

PCIe Slot from Host System Under Test

PCIe 6.0 CEM x4 Interposer Analyzer and Cable Compatibility	
Analyzer Platform	Cable Requirement(s)
Summit T48 Protocol Analyzer (Standard)	PE031UCA-X (Y-Cable)
Summit T48 Protocol Analyzer (Multiport)	PE030UCA-X (Straight Cable)
Summit T416 Protocol Analyzer (Standard)	PE031UCA-X (Y-Cable)
Summit T416 Protocol Analyzer (Multiport)	PE030UCA-X (Straight Cable)
Summit T54 Protocol Analyzer (G5 PHY)	PE027UCA-X (Straight Cable)
Summit M5x Protocol Analyzer	PE029UCA-X (Y-Cable)
Summit T516 Protocol Analyzer (Standard)	PE028UCA-X (Y-Cable)
Summit T516 Protocol Analyzer (Multiport)	PE027UCA-X (Straight Cable)
Summit M616 Protocol Analyzer (Standard)	PE028UCA-X (Y-Cable)
Summit M616 Protocol Analyzer (Multiport)	PE027UCA-X (Straight Cable)

Ordering Information

Product Description
PCIe 6.0 CEM x4 Interposer

Product Code
PE6104UIA-X