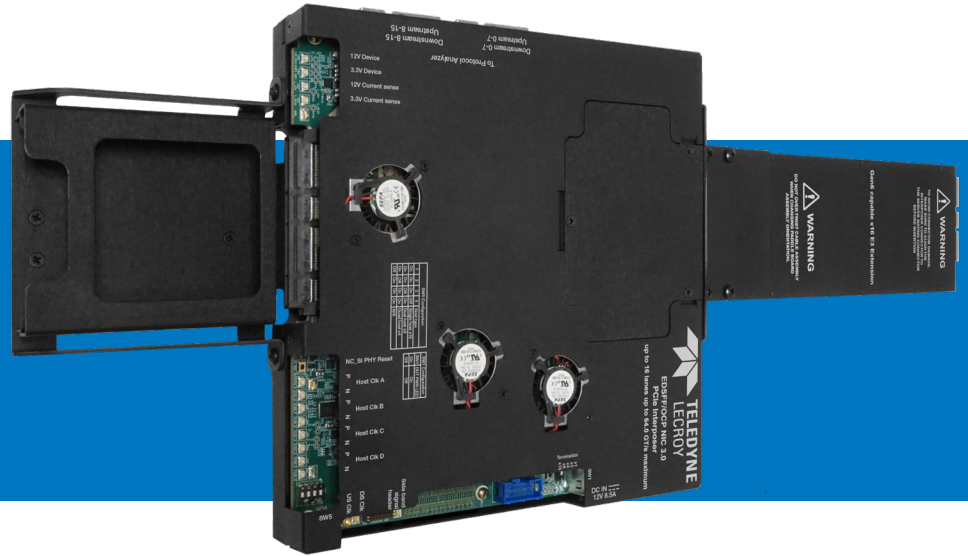


PCI Express® 6.0 EDSFF and OCP NIC 3.0 Interposers



Key Features

- Quick and simple set-up
- Allows Capturing and decoding of all PCIe traffic between host and device
- Supports NVMe, SOP/PQI, AHCI/PCIe, PCIe and CXL protocols
- Supports EDSFF and OCP devices:
 - EDSFF E1.S
 - EDSFF E1.L
 - EDSFF E3.x form factor
 - OCP NIC 3.0
- Supports data rates of 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16.0 GT/s, 32.0 GT/s and 64.0 GT/s
- Supports SRIS Clocking
- Supports CLKREQ# for testing low power L1 Substates
- Supports SMBus
- Supports: PWRBRK#, PERST#, WAKE#, CLKREQ# sideband signals
- 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)
- Dimensions:
 - EDSFF/OCP Interposer Module
203.2 mm x 209.55 mm (8.00" x 8.25")
 - E1.S/L x4 Adapter Kit
711.96 mm x 208.53 mm (28.03" x 8.21")
 - E1.S/L x8 Adapter Kit
711.96 mm x 208.53 mm (28.03" x 8.21")
 - E3.x x4 Adapter Kit
528.32 mm x 209.55 mm (20.80" x 8.25")
 - E3.x x16 Adapter Kit
615.95 mm x 208.53 mm (24.25" x 8.21")
 - OCP NIC 3.0 Adapter Kit
173.2 mm x 76 mm (6.8" x 3.0")
638.05 mm x 209.43 mm (25.12" x 8.25")

Teledyne LeCroy's PCI Express (PCIe® 6.0 EDSFF and OCP Interposers provide quick and simple means for protocol analysis of Enterprise and Datacenter Small Form Factor (EDSFF/OCP) interposer card for analysis of E1.S, E1.L, E3.x type Solid-State Drives (SSDs) and OCP devices that support the PCIe 6.0 specification.

There are six types of PCIe 6.0 EDSFF/ OCP Interposers, each focused on supporting a specific EDSFF/ OCP form factor device. They are the following:

- G6x4 EDSFF E1.S Interposer
- G6x4 EDSFF E1.S/L Interposer
- G6x8 EDSFF E1.L Interposer
- G6x4 EDSFF E3.x Interposer
- G6x16 EDSFF E3.x Interposer
- G6x16 OCP NIC 3.0 Interposer

The EDSFF/ OCP Interposer works in combination with a Summit Protocol Analyzer to monitor, capture, and record PCIe traffic between a host backplane and EDSFF or OCP devices for protocol analysis. These interposers support PCIe host interfaces including the NVM Express (NVMe) protocol at data rates from 2.5 GT/s up to 64.0 GT/s and link widths of up to x4 to x16 depending on which Interposer is used.

The PCIe 6.0 EDSFF and OCP Interposers provide connectivity and monitoring capability for E1.S, E1.L, E3.x and OCP type devices targeted at enterprise systems that use the SFF-TA-1002 multi-lane card edge connector. Multiple form factor types can be analyzed using these EDSFF and OCP Interposers. These interposers tap all PCIe protocol traffic between the host and EDSFF or OCP device and records it on the Summit

protocol analyzer where protocol issues and performance metrics can be further analyzed and debugged.

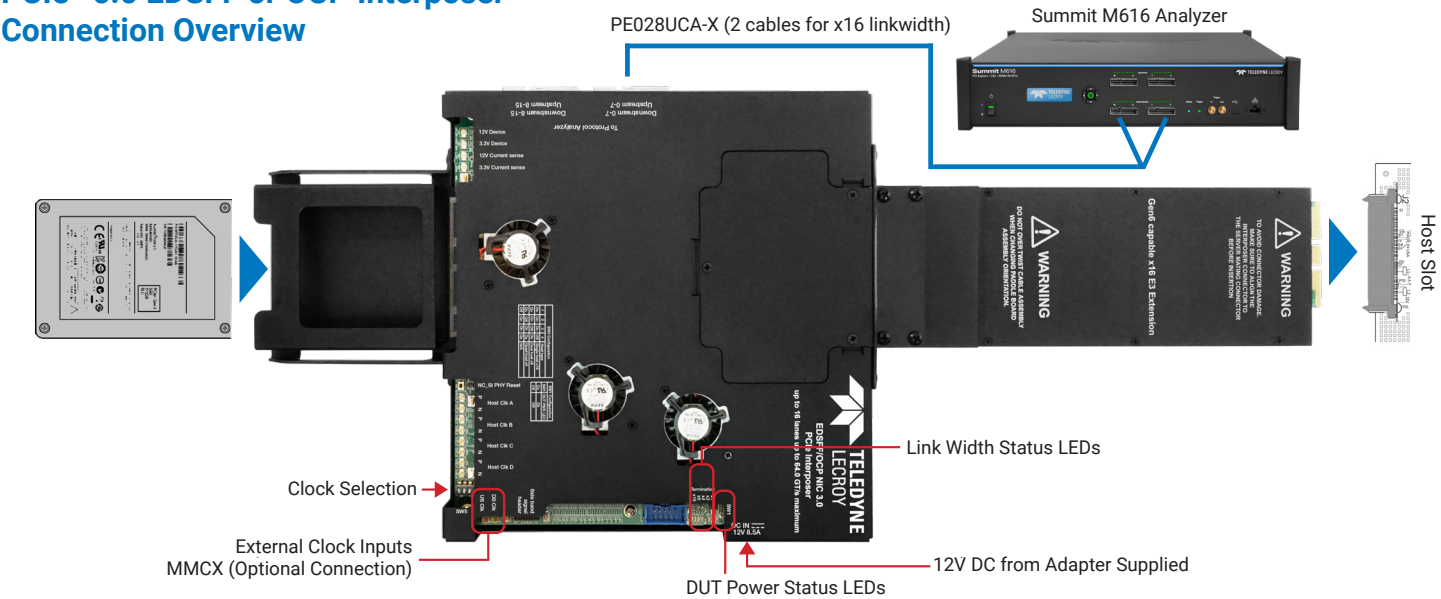
These Interposers are based on Teledyne LeCroy's Transparent Acquisition Probing technology for PCIe 6.0 (TAP⁶) and provide capture capability between the system and device. TAP⁶ is Teledyne LeCroy's next generation custom probing silicon designed specifically to "de-embed" Teledyne LeCroy's probes from the DUT. TAP⁶ employs a combination of signal splitters and linear amplifiers along with highly configurable DFE and CTLE adaptive equalizers to remove the effects of the probe from the active circuit.

Debugging the protocol traffic between the protocol analyzer and system board can be challenging due to tight mechanical tolerances.

Any of the Interposers can be upgraded to one of the other EDSFF or OCP Interposer models with one of the adapter kits.

PCI EXPRESS®

PCIe® 6.0 EDSFF or OCP Interposer
Connection Overview



PCIe 6.0 EDSFF/OCP 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 6.0x16 EDSFF Interposer Module

- PCIe 6.0 x4 E1.S/L Adapter Kit for EDSFF Interposer
- PCIe 6.0 x4 E1.S (Short) Adapter Kit for EDSFF Interposer
- PCIe 6.0 x8 E1.S/L Adapter Kit for EDSFF Interposer
- PCIe 6.0 x16 E3.x Adapter Kit for EDSFF Interposer
- PCIe 6.0 x4 E3.x Adapter Kit for EDSFF Interposer
- PCIe 6.0 x16 OCP NIC 3.0 Adapter Kit

Product Code

- PE6418UIA-X
- PE6404ACA-X
- PE6405ACA-X
- PE6408ACA-X
- PE6416ACA-X
- PE6417ACA-X
- PE6516ACA-X

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Visit our website to find the most convenient location.
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