

FEATURES & BENEFITS

- Interposers offered include: AIC (slot), M.2, and U.2. SFF-8644 coming soon
- Compliant with PCI Express 1.x, 2.x and 3.0 specifications
- Designed to capture PCIe® and NVMe® data at 8.0 GT/s, 5.0 GT/s and 2.5 GT/s
- Zero calibration required
- “Passive” tapping to avoid masking, hiding, or “cleaning up” electrical and/or link issues

ADVANTAGES

- Adaptive slot interposers operate at various bus widths providing significant overall solution cost savings. The x8 slot interposer can operate at x1, x2, x4, and x8; the x4 can operate at x1, x2, and x4
- A single U.2 (SFF8639) interposer provides both dual-port (2x2) and single-port (x1, x2, or x4) analysis
- U.2 interposer comes in standard and extended lengths to accommodate all drive bays
- Low-cost, flexible, high-performance cabling for reliable analyzer-to-interposer connections provides real cost advantages over competing solutions that use cumbersome, bulky, and expensive iPass-type cabling
- Mini-SMP outputs for REFCLK# (varies by model)

SerialTek provides two market-leading PCI Express® (PCIe®) analysis solutions, the BusXpert PRO and the BusXpert Micro II, for PCIe (including Non-Volatile Memory Express® or NVMe) technology design and validation, including host bus storage adapters, computer systems, servers, and storage products. All SerialTek PCIe analysis products are compliant with the PCIe 1.x, 2.x and 3.0 specifications.

Several cost-effective and flexible PCIe® Interposer options are available. These interposer solutions are designed to provide maximum

performance with minimal configuration when capturing PCI Express communication data between hosts and devices. SerialTek’s latest generation of interposers delivers top performance with zero user-side calibration required.

The most commonly used interposer is the add-in card (AIC) form-factor (also known as “Slot” or “Card Edge”). High signal integrity on this industry-leading interposer makes it ideal not only for AIC PCIe analysis but also for M.2, U.2 (SFF-8639), and other PCIe connectors via adapters.




In addition to AIC, SerialTek provides native U.2 and M.2 interposers. The U.2 interposer combines single-port (1x4) and dual-port (2x2) functionality and is compatible with SSD carriages, creating a perfect fit in any server. The U.2 interposer also comes in two depths to accommodate all drive bay geometries. The M.2 interposer has four Host/Socket adapters (HSAs) for all current M.2 form factors.

All BusXpert interposers provide header pins to select sideband signals for analysis and a REFCLK-oscilloscope SFL interface. Low-cost SFF-8644-based cabling connects the interposer to the Analyzer. All interposers are compatible with both the BusXpert PCIe/NVMe PRO (part number PE-1PRA1-080318-000) and BusXpert PCIe/NVMe Micro II (part number PE-1MIA2-0403) Analyzers.



Figure 1: PCIe Gen3 x4, x8 Slot/AIC Interposer.

Interposer and Analyzer Specifications

x4, x8 AIC/Slot Interposer		
	Model Numbers	PE-1SLI1-0304-000, PE-1SLI1-0308-000
	Specification Compliancy	PCIe 1.x, 2.x, 3.0
	Data Rates Supported	2.5, 5.0, and 8.0 GT/s
	Widths Supported	x1, x2, x4
	Analyzer Connector	SFF8644 (SerialTek proprietary)
	Impedance (Differential)	95 Ohms (+/- 5%)
	Power	12V DC External
	Dimensions	9.9 in (length) x 3.6 in (height) / 251mm x 91mm
	Weight	5.4 oz / 153 grams
x4 U.2/SFF8639 Interposer		
	Model Numbers	PE-2U2I1-0304-000
	Specification Compliancy	PCIe 1.x, 2.x, 3.0
	Data Rates Supported	2.5, 5.0, and 8.0 GT/s
	Widths Supported	x1, x2, x4
	Analyzer Connector	SFF8644 (SerialTek proprietary)
	Impedance (Differential)	95 Ohms (+/- 5%)
	Power	12V DC External
	Dimensions (Length x Width (nose length))	Standard: 13.25in x 6.50in (5.375in) 337mm x 165mm (136mm) Extended: 17.50in x 6.50in (9.376in) 445mm x 165mm (238mm)
Weight	13.10 oz / 371 grams	
x4 M.2 Interposer		
	Model Numbers	PE-1M2I1-0304-000
	Specification Compliancy	PCIe 1.x, 2.x, 3.0
	Data Rates Supported	2.5, 5.0, and 8.0 GT/s
	Widths Supported	x1, x2, x4
	Analyzer Connector	SFF8644 (SerialTek proprietary)
	Impedance (Differential)	95 Ohms (+/- 5%)
	Power	12V DC External
	Dimensions	9.9 in (length) x 3.6 in (height) / 251mm x 91mm
Weight	5.4 oz / 153 grams	

