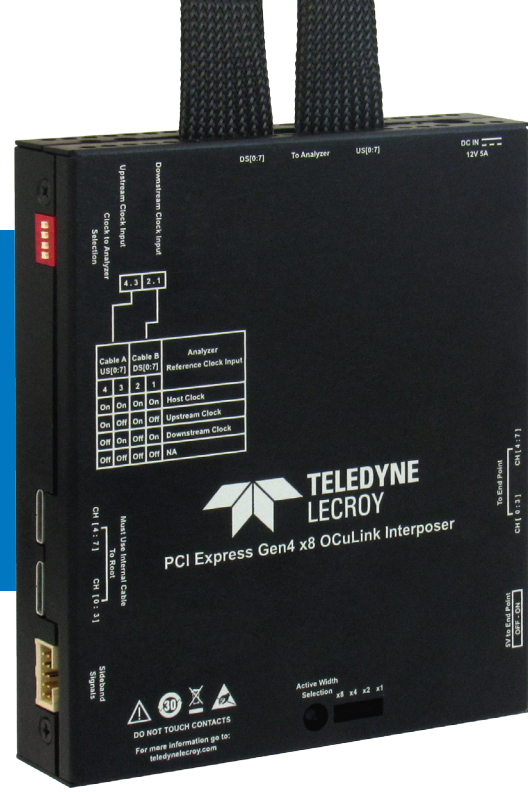


PCI Express® Gen4 OCuLink Cable Interposer for Summit™ PCI Express 4.0 Protocol Analyzers



Key Features

- Allows a Summit protocol analyzer to access PCIe Gen4 OcuLink Cable connections
- T.A.P.4™ Transparent Acquisition Probing provides minimal signal perturbation, fast signal locking and seamless state change detection
- Supports data rates of 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, and 16.0 GT/s (PCIe Gen4 compliant)
- Supports link widths up to x8
- Supports SMBus sideband signaling
- Supports external clocking

Teledyne Lecroy's PCI Express PCIe Gen4 OcuLink Cable Interposer for the Summit™ PCI Express Protocol Analyzer makes it easy to capture and analyze data traffic between a host and device that are connected using a PCIe® OcuLink type cable based on the PCI Express OcuLink specification.

The PCIe OcuLink Interposer, which is used with Summit™ Protocol Analyzers, enables PCIe bus traffic between a system board and storage devices using PCIe OcuLink cables to be monitored, captured and recorded for protocol analysis. The PCIe OcuLink Cable interposers will support protocol analysis for PCIe at data rates from 2.5 GT/s up to 16.0 GT/s, and link widths from x1 to x8. For x16 link widths two PCIe OcuLink interposers can be used together for one link.

OCuLink cables are rapidly becoming the leading internal and external cables for storage and enterprise systems. The PCI-SIG® has initiated this cable design in the PCI Express OcuLink Specification. One standard PCIe OcuLink Cable can support PCIe link widths from x1 to x4. Larger

links can be achieved by adding additional cables, e.g. a x8 link uses two PCIe OcuLink cables. The PCI Express OcuLink Specification allows in addition to in-band PCIe signaling the passage of sideband signals such as PERST# and WAKE#, and SMBus sideband signaling by passing it electrically through the link. The sideband signaling (PERST# and WAKE#, SMBus and other functionality) can be monitored by the protocol analyzer through the interposer, where protocol issues and performance metrics can be analyzed and debugged. RefClk signals external to the cable are also available on the PCIe OcuLink Cable Interposer for use with the protocol analyzer.

The PCIe OCuLink Cable Interposer enables test connectivity to the protocol analyzer. The interposer is easily set up and provides probing between host and devices to allow capture and decoding of data traffic between the two systems. The PCIe

OCuLink Cable Interposer supports PCI Express data channels with link widths of up to x8 at all standard PCIe data rates up to 16.0 GT/s. Teledyne LeCroy PCI Express protocol analyzers are tools for identifying, diagnosing and solving the interoperability issues

typically encountered during enterprise and storage development.

High speed cables coming from the analyzer.

12V DC from adapter supplied

Upstream Clock Input
Downstream Clock Input

DS[0:7] To Analyzer US[0:7] DC IN 12V 5A

4 . 3 . 2 . 1

Cable A US[0:7]	Cable B DS[0:7]	Analyzer Reference Clock Input
4 3 2 1	4 3 2 1	
On On On On	On On On On	Host Clock
On Off On Off	On Off On Off	Upstream Clock
Off On Off On	Off On Off On	Downstream Clock
Off Off Off Off	Off Off Off Off	NA

Must Use Internal Cable

CH [4 : 7] To Root CH [0 : 3] To End Point

5V to End Point OFF-ON

TELEDYNE LECROY
PCI Express Gen4 x8 OCuLink Interposer

DO NOT TOUCH CONTACTS
For more information go to: teledynelecroy.com

Active Width Selection x8 x4 x2 x1

System Compatibility

Summit T48	✓
Summit T416	✓

Teledyne LeCroy PCIe Internal OCuLink cable(s) connecting from Host/Root Complex (these cables are supplied with interposer). One cable supports x1 to x4, two cables are required for x8.

PCIe Internal or External OCuLink cable(s) connecting from Device/End Point. One cable supports x1 to x4, two cables are required for x8.

Specifications	
Dimensions	132 x 158mm (5.2" x 6.22")
Link Width	x1, x4, and x8
Data Rates	2.5 GT/s, 5.0 GT/s, 8.0 GT/s and 16.0 GT/s (Gen4)

Ordering Information

Product Description

PCIe Gen4 x8 OCuLink Interposer

Product Code

PE163UIA-X



Local sales offices are located throughout the world. Visit our website to find the most convenient location.

1-800-5-LeCroy • teledynelecroy.com



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