# TELEDYNE LECROY
## Everywhere**you**look™

# Multi-lead Probe
## for PCI Express® 5.0

## Key Features

- **Supports PCI Express 5.0**

- **Supports SRIS Clocking**

- **Captures all bus traffic at data rates up to 32 GT/s**

- **Covers unidirectional link widths up to x8 using one probe**

- **Uses T.A.P[6] technology to minimize perturbation**

- **Sideband signal cable allows monitoring for: PERST# and WAKE#, CLKREQ#, and SMBus**

- **Lane Swizzling feature in Summit analyzers allows flexibility in probe connection**

# PCI EXPRESS®

The PCIe® 5.0 Teledyne LeCroy Multi-lead probes allow developers using an embedded PCI Express bus in their PCB designs to tap into the signal traces directly and capture of each serial lane, allowing flexibility to connect to any accessible points on the surface of the PCB. Each connection minimizes perturbation of the PCI Express bus signal using T.A.P[6] technology while providing a reliable capture of all PCI Express traffic.

Teledyne LeCroy's Multi-lead probes use a precision probe tip for receiver-pair or transmitter-pair probing. The probe tip is attached to the Multi-lead pod that connects to the protocol analyzer. Each pod can support link widths of up to x8 unidirectional or x4 bi-directional at up to 32GT/s speeds. Multiple pods can also be used to simultaneously capture up to x16 bi-directional traffic. The pod will connect to a Teledyne LeCroy Summit™ T54, T516 or M616 protocol analyzer. Support is provided for PCI Express data rates including 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16GT/s, and 32GT/s link widths. Sideband signals are supported on a separate cable attachment. The Multi-lead probes also support SRIS clocking.

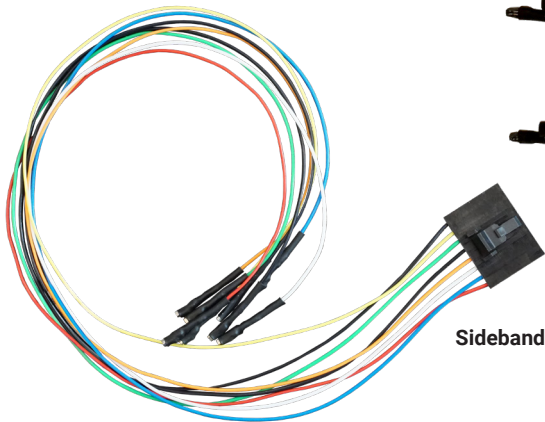| System Compatibility | |
|---|---|
| Summit T54 | ✓ |
| Summit T516 | ✓ |
| Summit M616 | ✓ |

| Specifications | |
|---|---|
| Sideband Cable | 936.5mm / 36.87" |
| Multi-Lead Cable | 1000mm / 39.37" with 63.5mm/2.5" sideband mating part |

Summit M616 Protocol Analyzer



Multi-lead Pod



PCIe 5.0 High Speed Probe Tips



Sideband Cable Connectors

| PCIe 5.0 Multi-lead Probe Analyzer Compatibility | |
| --- | --- |
| Analyzer Platform | Cable Requirement(s) |
| Summit T54 Protocol Analyzer (G5 PHY) | PE027UCA-X (Straight 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

**Product Code**

PCIe 5.0 Multi-lead Pod Kit
Includes one (1) PCIe 5.0 (x4 bidirectional/x8 unidirectional) pod; one (1) expansion cable and
one (1) power supply with 4-way splitter (no tips included)

PE6900ACA-X

PCIe 5.0 x1 Multi-lead Probe Kit
2 probe cables with attached tips; 1 cable required per lane, per direction; additionally, one tip required
for Common RefClk, 2 tips required for SRIS Clocking

PE6901UIA-X



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

**1-800-5-LeCroy • teledynelecroy.com**