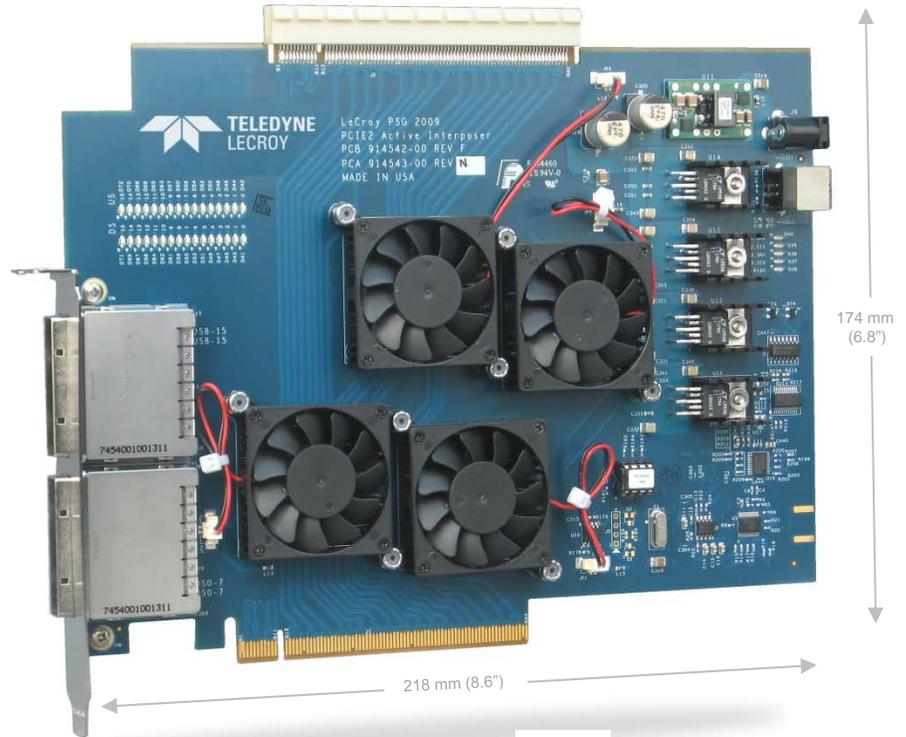


## Gen2 x16 Active Interposer for PCI Express® 2.0

Active Interposer  
Allows Reliable  
Probing of  
PCI Express Traffic  
with Quick, Simple  
Setup!



### Specifications

|                   |                                      |
|-------------------|--------------------------------------|
| <b>Dimensions</b> | 174 x 218 mm<br>(6.8" x 8.6")        |
| <b>Lane Width</b> | x1, x4, x8 or x16                    |
| <b>Data Rates</b> | 2.5 GT/s (Gen1)<br>and 5 GT/s (Gen2) |

### Ordering Information

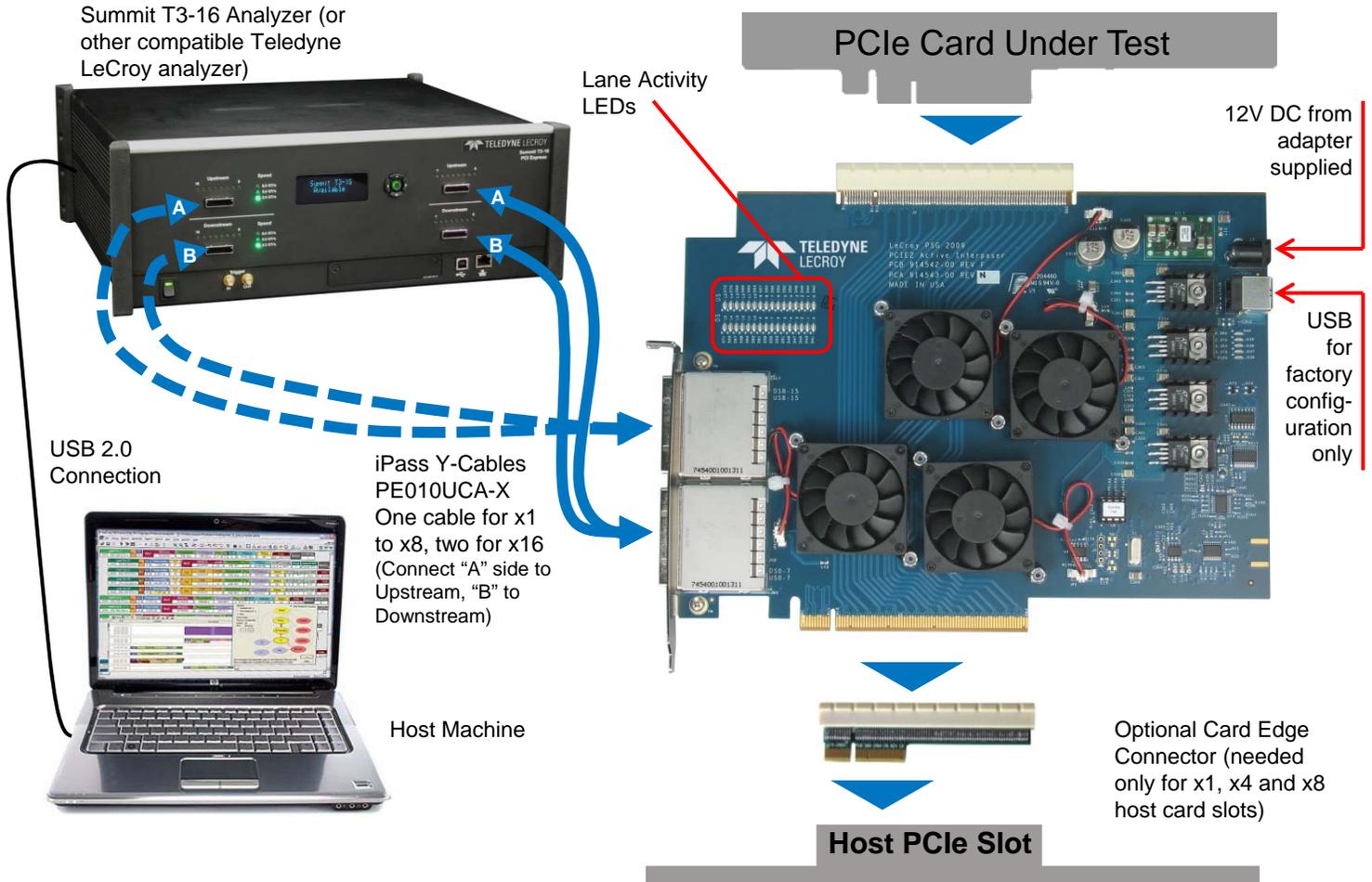
| Product Description   | Product Code      |
|---|-------------------|
| Active G2x16 Interposer Kit includes Active x16 Interposer, two iPass Y-Cables, x1, x4 and x8 edge adapters | <b>PE019UIA-X</b> |
| Active G2x16 Interposer Card (no cables or adapters)  | <b>PE018UIA-X</b> |

The Teledyne LeCroy Gen2 x16 Active Interposer provides an economical means to probe PCI Express traffic between a host and PCIe® expansion card. The interposer assures reliable data transmission while providing 100% capture of all data traffic flowing through the PCIe slot interface. Connecting the interposer to a Teledyne LeCroy 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 Gen2 x16 Active Interposer supports data rates of 2.5 GT/s (Gen1) and 5.0 GT/s (Gen2), and lane widths up to x16 (the PCIe connector on the card will support PCIe expansion cards up to x16—if a x8, x4 or x1 card is inserted, the connection will automatically negotiate to the lesser lane width). The interposer can be used with host PCIe expansion slots as small as x1 by using card edge reducer adapters (see diagram on following page—again, the connection will automatically negotiate to the lesser lane width).

The new Gen2 x16 Active Interposer is a powerful and versatile tool for all developers working with Gen2 PCIe expansion cards.

## Gen2 x16 Active Interposer Interconnection Overview



### Connecting the Gen2 x16 Active Interposer

1. Install the Interposer into the host system PCIe connector, using a card edge reducer adapter if needed (for x8, x4 and x1 PCIe slots only).
2. Install the PCIe expansion card under test (DUT) into the connector on the interposer. Note that PCIe expansion cards with edge connectors up to x16 can fit the connector on the interposer, but if x8, x4 or x1 expansion cards are inserted, the connection will negotiate to the lesser lane width.
3. Connect 12V DC using the AC adapter supplied with the interposer. Make sure that the AC adapter is turned on.
4. Connect the Summit T3-16 Analyzer (or other compatible Teledyne LeCroy analyzer) to the interposer using one (for up to x8) or two (for x16) iPass Y-cables, as indicated in the diagram above. The "A" connector goes to "Upstream".
5. Connect the analyzer to a host machine using the USB 2.0 port on the back panel of the Summit T3-16 analyzer.
6. Install the software on the host machine.
7. Power on the analyzer.
8. Power on the host system.
9. Use the Teledyne LeCroy software application to monitor, record and view PCI Express the PCI expansion card DUT system.

| System Compatibility |      |
|----------------------|------|
| Summit T3-16         | ✓    |
| Summit T3-8          | ✓(1) |
| Summit T34           |      |
| Summit T28           |      |
| Summit T24           |      |

(1) Compatible if using two T3-8 systems.



1-800-909-7211  
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Local sales offices are located throughout the world.  
Visit our website to find the most convenient location.