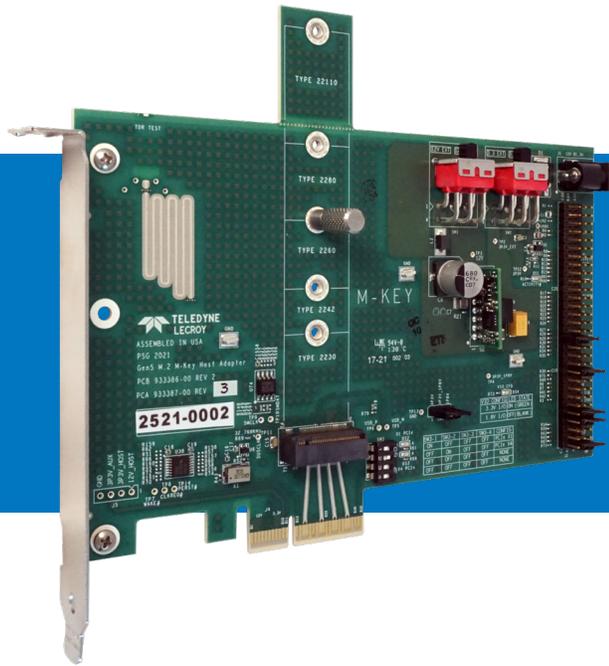


# PCI Express® 5.0 M.2 Host Adapter



## Key Features

### Allows M.2 devices to connect to PCI Express slots

- Direct testing of PCIe® functions using standard PCIe host slot

### Supports M or B/M type device

### M-Key (socket 3) supports up to x4 link widths

### Dual Port configurations support SSD modules

### Supports SMBus

### Specifications:

- M.2 Host adapter: 6.18" x 7.02" (156.97 mm x 178.31 mm)
- Link Width x1, x2 or x4
- Data Rates 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16.0 GT/s and 32 GT/s
- Supports M.2 SSD sizes of 30mm, 42mm, 60mm, 80mm and 110mm

## M.2 Adapter Cards Allows Fast, Easy Testing of New Designs Using Standard PCI Express Slots

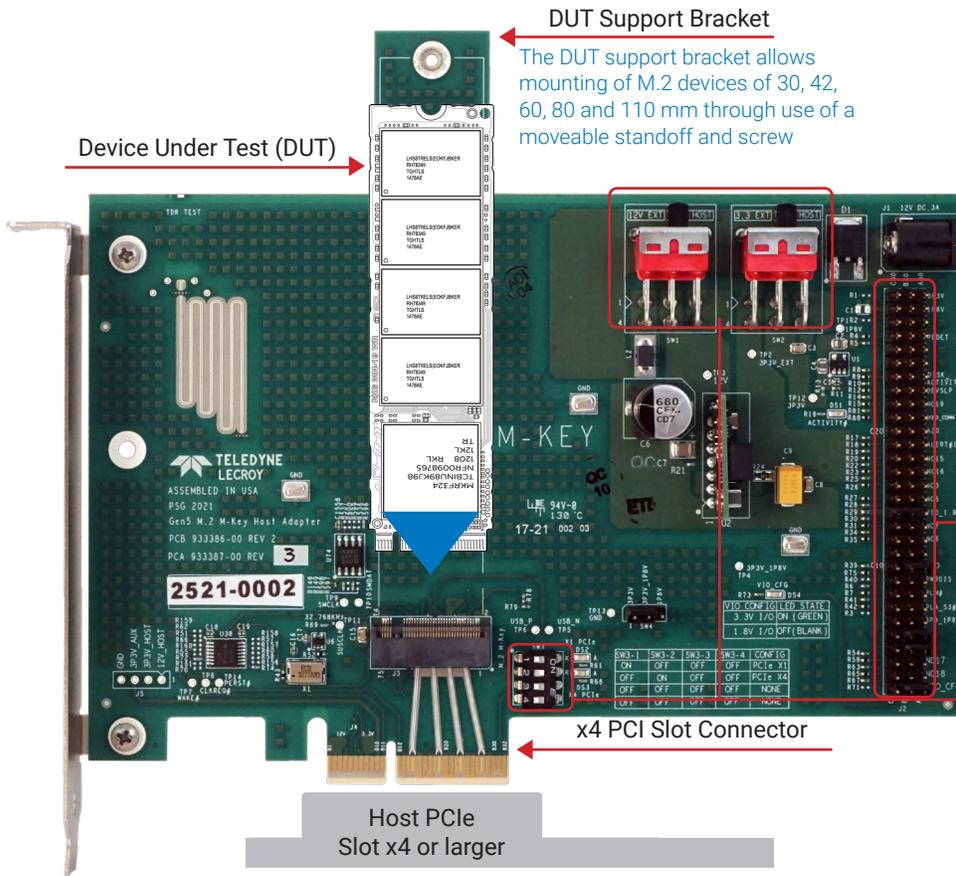
Teledyne LeCroy's M.2-to-AIC (CEM) adapter cards provide developers with an extremely versatile tool to speed development of new M.2 (M or B/M type) designs and to troubleshoot existing M.2 device issues. Simply by plugging the M.2 device into the adapter, the engineer can then install the device into a standard PCI Express (AIC) card slot and exercise all PCIe functions on the device. This allows engineers to quickly focus on trouble spots without the need for additional test equipment.

If more detailed information is needed, the adapter can be used with a standard PCIe interposer and Teledyne LeCroy analyzer to capture all PCIe data traffic passing through the interface, allowing engineers visibility to virtually all types of protocol problems that may affect device performance or reliability. Rapid identification of problems leads to rapid solutions to problems showing up on existing devices.

In addition, if an M.2 host port is available, Teledyne LeCroy offers a M.2 interposer designed for M.2 devices that can be used as a direct traffic probe and analysis tool with any of our PCIe 5.0 Summit™ product family of analyzers. In combination, these products provide flexible and powerful tools for developers working on M.2 designs to streamline testing and reduce time-to-market for new M.2 products.

## M.2 Adaptor Interconnection Overview

M-Key version shown here supports Type M and B-M SSDs.



Test Point Number	Test Point Name
TP1	1P8V
TP2	3P3V_EXT
TP3	P12V
TP4	3P3V/1P8V
TP12	3P3V
TP13	GND
TP20	GND
TP21	GND
TP22	GND
TP1	1P8V
J2.B1	VIO_CFG
J2.B7	PLA_S3#
J2.B8	PLN#
J2.B9	PWRDIS
J2.B14	VIO_1.8V
J2.B19	ALERT#IN
J2.B23	DEVSLP
J2.B24	DISK_ACTIVITY
J2.B27	PEDET

DUT Support Bracket

The DUT support bracket allows mounting of M.2 devices of 30, 42, 60, 80 and 110 mm through use of a moveable standoff and screw

Device Under Test (DUT)

12V DC Power Supply (included)

Sideband Signal Header

This header provides access to sideband signals from the M.2 connector.

x4 PCI Slot Connector

Host PCIe Slot x4 or larger

These control switches allow the user to specify the maximum lane width to be used (x1 or x4), and to specify the type and source of power supplied to the DUT (3.3V from the PCIe bus or 3.3V from the external DC supply; and 12V from the PCIe bus or 12V from the external DC supply).

The optional use of an interposer and analyzer in either location indicated allows all PCIe data traffic to be captured, decoded and displayed. This allows more detailed analysis of issues and faster solutions for protocol problems.

Summit T516 Analyzer



## Ordering Information

### Product Description

PCI Express Gen5 x4 Slot to M.2 M-Key Adapter

### Product Code

PE-G5-M.2M-2-X4SLOT-S-X



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

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