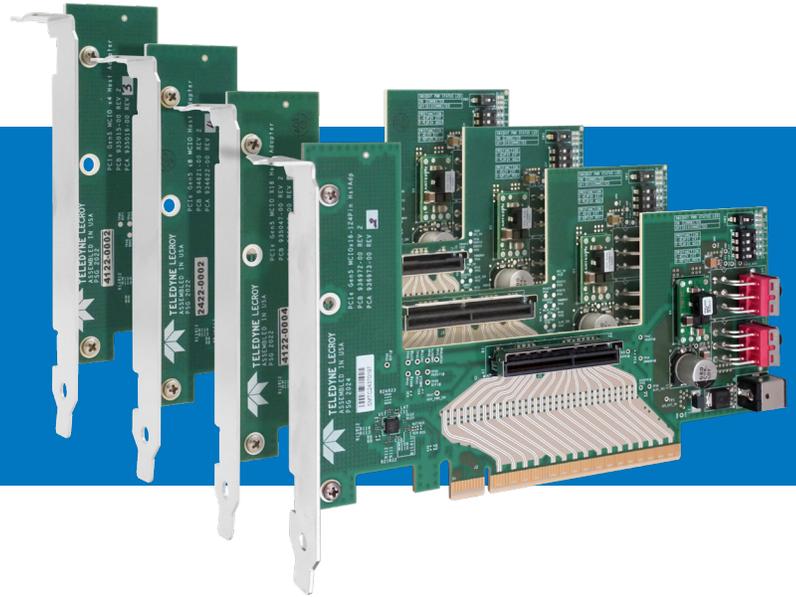# MCIO Cable
Host Adapter Cards
for use with PCI Express® 5.0

Key Features

- Supports MCIO SFF-TA-1016 mechanical Specification:
  - PCIe 5.0 MCIO Interposer (38 Pin Connector)
  - PCIe 5.0 MCIO Interposer (74 Pin Connector)
  - PCIe 5.0 MCIO Interposer (124 Pin Connector)
  - PCIe 5.0 MCIO Interposer (148 Pin Connector)
- Allows MCIO cables to connect to PCI Express slots
- Direct testing of PCIe functions using standard PCIe host slot
- NVMe at up to x16 link widths
- Supports data rates up to 32.0 GT/s
- Supports devices in reinforced slot up to x16
- Combine with interposer and analyzer for increased test flexibility

Teledyne LeCroy's PCIe® 5.0 MCIO Cable Host Adapter provides a quick and simple means for test and debug of MCIO cables based on PCI Express (PCIe) protocol. It supports data rates of 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16.0 GT/s and 32.0 GT/s. This host adapter also supports side band signals such as PERST#, WAKE#, CLKREQ# and SMBus (SMBCLK, SMBDAT).
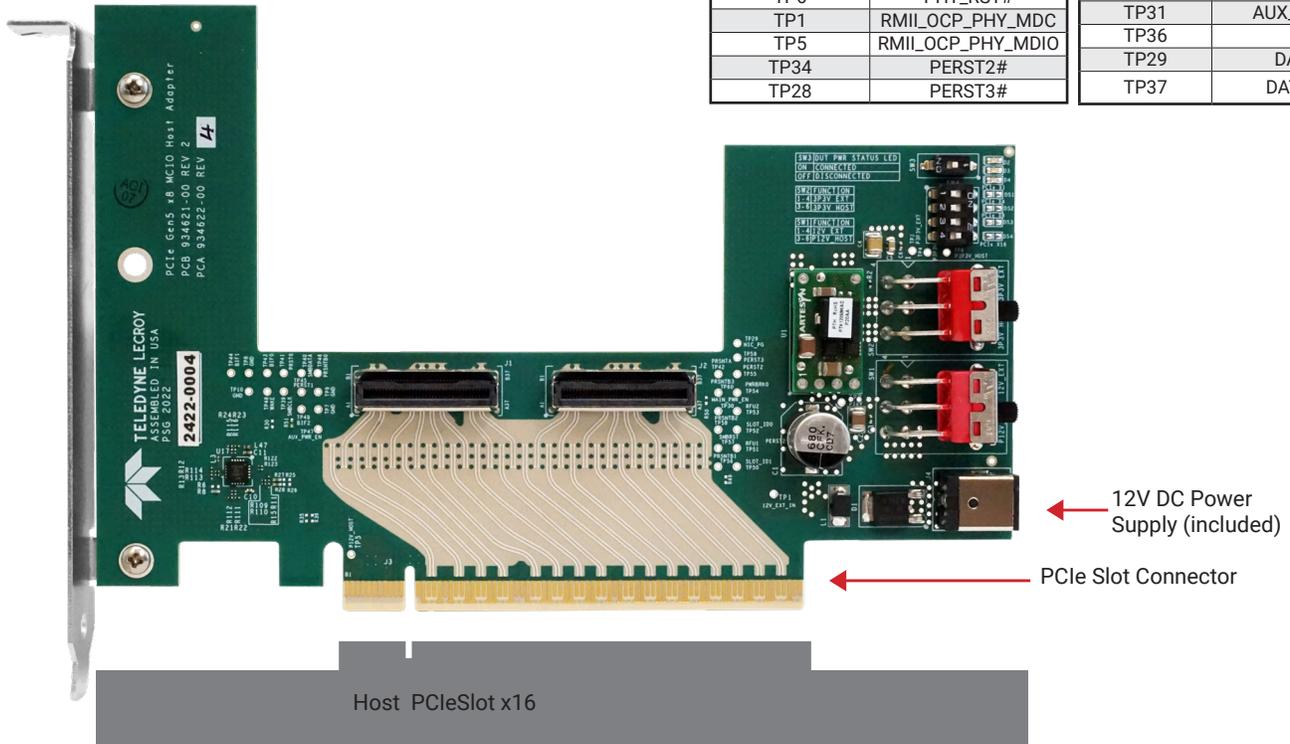
The PCIe 5.0 MCIO Host adapter provides connectivity capability for MCIO cables based on SFF-TA-1016 mechanical specification to a PCIe 5.0 x16 CEM slot. The MCIO Host Adapters each support up to 16 lanes of PCIe 5.0 traffic with specific connector support for the MCIO Interposers with 38 pin, 74 pin, and 148 pin (124 pin uses adapter cable) configurations.

Specifications

- Host adapter: 6.65" x 5.93" (168.91mm x 150.62mm)
- Link Widths x1, x2, x4, x8 or x16
- Data Rates 2.5 GT/s, 5.0 GT/s, 8.0 GT/s, 16.0 GT/s and 32.0 GT/s

PCI> EXPRESS®

MCIO Cable Host Adapter Interconnection Overview

Host Adapters	Pin Type	Number of Connectors
PCIe 5.0 38 Pin MCIO Cable Host Adapter	38	4 connectors
PCIe 5.0 74 Pin MCIO Cable Host Adapter	74	2 connectors
PCIe 5.0 124 Pin MCIO Cable Host Adapter	124	1 connector
PCIe 5.0 148 Pin MCIO Cable Host Adapter	148	1 connector

Test Point Number	Test Point Name	Test Point Number	Test Point Name
TP37	DATA_OUT	TP22	12V_EXT
TP30	CLK	TP17	12V_HOST
TP38, TP3, TP16, TP32, TP39, TP40	GND	TP9	12V
TP13	USB_DATA_N	TP2	3.3V_EXT
TP11	USB_DATA_P	TP4	3.3V_HOST
TP12	RFU_B68	TP7	3.3V
TP10	RFU_B69	TP20	SMCLK
TP43	RFU_A70	TP18	SMDAT
TP44	RFU_A42	TP19	SMBRST#
TP45	RFU_B70	TP33	CLKREQ#_PERST1#
TP46	RFU_B42	TP15	PRSNTB0#_B42
TP47	MFG_B7	TP14	PRSNTB1#_A42
TP48	RFU_B8	TP21	PRSNTB2#_A12
TP49	PRSNT0#_A12	TP8	PRSNTB3#_B70
TP6	PHY_RST#	TP27	NIC_PWR_GOOD
TP1	RMII_OCP_PHY_MDC	TP35	MAIN_PWR_EN
TP5	RMII_OCP_PHY_MDIO	TP31	AUX_PWR_EN
TP34	PERST2#	TP36	LD#
TP28	PERST3#	TP29	DATA_IN
		TP37	DATA_OUT

12V DC Power Supply (included)

PCIe Slot Connector

Host PCIeSlot x16

Ordering Information

Product Description	Product Code
PCIe 5.0 148 Pin MCIO Cable Host Adapter	PE-G5-MCIO148Pin-X16SLOT-X
PCIe 5.0 124 Pin MCIO Cable Host Adapter	PE-G5-MCIO124Pin-X16SLOT-X
PCIe 5.0 74 Pin MCIO Cable Host Adapter	PE-G5-MCIO74Pin-X16SLOT-X
PCIe 5.0 38 Pin MCIO Cable Host Adapter	PE-G5-MCIO38Pin-X16SLOT-X

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