

mPCIe-M2x series

NGFF M.2 module to mini-PCIe adapter

Key Features



mPCIe-M2B

mPCIe-M2E

mPCIe-M2M



mPCIe-M2B

- Enable user to use M.2 3042/3052 B key 4G LTE/5G NR module on mPCIe slot
- Covert host PCIe interface to USB3.0 by Fresco FL1100SX Xhci controllers
- Support dual nano-SIM cards
- -25°C to 70°C operation

mPCIe-M2E

- Enable user to use M.2 2230 E key WiFi module on mPCIe slot
- -25°C to 70°C operation

mPCIe-M2M

- Enable user to use M.2 2242 M key NVMe module on mPCIe slot
- -25°C to 70°C operation

[Get Quote](#)
[Contact Us](#)

Introduction

mPCIe-M2B, mPCIe-M2E, and mPCIe-M2M are adapter cards to maximize the flexibility of M.2 module options on mPCIe sockets. The three adapters aim to enable M.2 3042/3052 B key module, M.2 2230 E key module, and M.2 2242 M key module on a mPCIe socket, respectively.

The industrial-grade M.2 to mPCIe adapters, mPCIe-M2x series, have been verified capable of operating from -25°C to 70°C temperatures. The 5mm-tall compact footprint makes it easy to adapt to compact systems with limited space.

mPCIe-M2B

The mPCIe-M2B adapter enables the mPCIe slot to support the latest 4G LTE/ 5G NR communication module. The onboard Fresco FL1100SX xHCI controller converts the host PCIe interface to USB 3.0 to meet the modern 5G NR module requirement. The dual nano-SIM slots are especially important for data roaming applications, e.g., in-vehicle computer traveling across multiple countries.

mPCIe-M2E

The mPCIe-M2B adapter enables the mPCIe slot to support the latest WiFi 6 module in the M.2 2230 E key form factor.

mPCIe-M2M

The mPCIe-M2M adapter allows the mPCIe slot to support a 2242 M key NVMe. This adapter enables another storage option for systems with limited expansion.

Specifications

	mPCIe-M2B	mPCIe-M2E	mPCIe-M2M
Form Factor			
DC Input	M.2 3042/3052 B key module on mPCIe slot	M.2 2230 E key module on mPCIe slot	M.2 2242 M key NVMe on mPCIe slot
Host Interface			
Interface	PCIe (Gen2) USB 2.0	PCIe USB 2.0	PCIe
Module Interface			
Interface	USB3.0 USB2.0	PCIe	PCIe
Output Connector			
M.2	M.2 B Key	M.2 E Key	M.2 M Key
Mechanical			
Dimension (With the removable PCB)	64.3 x 30 x 5 mm	51.0 x 30 x 5 mm	64.3 x30 x5 mm
Dimension (Without the removable PCB)	54.3 x 30 x 5 mm	42.6 x 30 x 5 mm	54.3 x30 x5 mm
Environmental			
Operating Temperature	-25°C to 70°C	-25°C to 70°C (TBC)	-25°C to 70°C

Ordering Information

Model No.	Product Description
mPCIe-M2B	NGFF M.2 key B to mini-PCIe adapter with dual nano-SIM slots
mPCIe-M2E	NGFF M.2 key E to mini-PCIe adapter
mPCIe-M2M	NGFF M.2 key M to mini-PCIe adapter