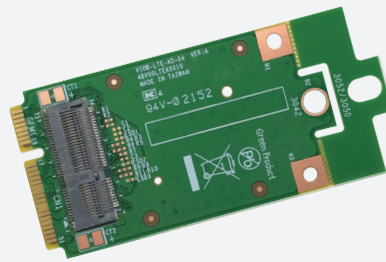
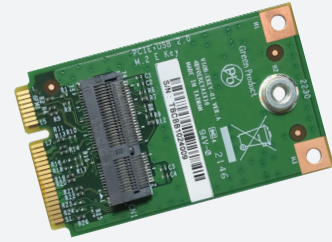


VIOB-LTE-AD-03



VIOB-LTE-AD-04



VIOB-EKEY-01

## Main Features

### VIOB-LTE-AD-03

- Converter for mini-PCIe WWAN module to use in M.2 3042/3052 Key B + M slot
- Supports USB 2.0, USB 3.2 (Gen1) interface of mini-PCIe module for 4G LTE

### VIOB-LTE-AD-04

- Converter for M.2 3042/3050/3052 Key B WWAN module to use in full size mini-PCIe slot
- Supports USB 2.0, USB 3.2 (Gen1) interface of M.2 module for 5G/4G LTE

### VIOB-EKEY-01

- Converter for M.2 2230 Key E WLAN module to use in full size mini-PCIe slot
- Supports USB 2.0, PCIe 3.0 interface of M.2 module for Wi-Fi 5/6/6E

## Product Overview

VIOB-LTE/EKEY series are M.2 to mini-PCIe converter modules and mini-PCIe to M.2 converter modules. They are designed for computers that convert 5G/4G LTE WWAN module or Wi-Fi 5/6/6E WLAN module to M.2 or full size mini-PCIe slot. Quick and easy to install on any device, they support any kind of form factor module in a vehicle system. In order to satisfy server vehicle environments, these modules are fully functional under a wide operating temperature range of -40°C to 85°C. To further ensure reliability, it is designed to meet the ESD standard of ±8KV/15KV (contact/air) based on the IEC 61000-4-2.

## Specifications

### VIOB-LTE-AD-03

- Form Factor
  - M.2 3042/3052 Key B + M
- Input I/F
  - USB 2.0, USB 3.2 (Gen1)
- Input connector
  - M.2 Key B + M
- Output I/F
  - mini-PCIe
- Output connector
  - Full-size mini-PCIe (socket)
- Dimensions
  - 62mm (L) x 31mm (W) (2.4" x 1.2")
- Weight
  - 7g

### VIOB-LTE-AD-04

- Form Factor
  - Full-size mini-PCIe
- Input I/F
  - USB 2.0, USB 3.2 (Gen1)
- Input connector
  - Full-size mini-PCIe
- Output I/F
  - M.2 3042/3050/3052 Key B
- Output connector
  - M.2 (socket)
- Dimensions
  - 65mm (L) x 30mm (W) (2.6" x 1.2")
- Weight
  - 7g

### VIOB-EKEY-01

- Form Factor
  - Full-Size mini-PCIe
- Input I/F
  - USB 2.0, PCIe 3.0
- Input Connector
  - Full-Size mini-PCIe
- Output I/F
  - M.2 2230 Key E
- Output Connector
  - M.2 (socket)
- Dimensions
  - 51mm (L) x 30mm (W) (2.0" x 1.2")
- Weight
  - 5g

### Environment

- Operating temperatures: -40°C~85°C
- Storage temperatures: -40°C~90°C
- Related humidity (with system chassis): 5%~90%

### Electrical Protection

- IEC 61000-4-2 electrostatic discharge (ESD): ±8KV/15KV (contact/air)

## Ordering Information

- **VIOB-LTE-AD-03 (P/N: 88V000LTE01X0)**  
1 x M.2 3042/3052 Key B + M to full-size mini-PCIe converter module
- **VIOB-LTE-AD-04 (P/N: 88V000LTE00X0)**  
1 x Full-size mini-PCIe to M.2 3042/3050/3052 Key B converter module
- **VIOB-EKEY-01 (P/N: 88V00EKEY00X0)**  
1 x Full-size mini-PCIe to M.2 M.2 2230 Key E converter module