

# PCI EXPRESS® M.2 CONNECTOR

## OVERVIEW

The FCI PCI Express® (PCIe) M.2 provides 67 contacts on 0.5mm pitch. Various connector height and keying options are available. The connector accepts angled insertion of add-in module cards and supports PCI Express 3.0, USB 3.0, and SATA 3.0 applications. FCI's PCIe M.2 connectors are also compliant with the PCI-SIG PCIe M.2 specification.

The M.2 connector occupies less PCB board space, offers more connector height options, and supports higher data rates than PCIe Mini Card connector. These benefits make it an ideal option for tablets, laptops, low profile storage/server applications.



## FEATURES

- 75 positions with 8 positions are used for connector key, 0.5mm pitch
- Available in various height options
- Support both single and double-sided modules
- Support PCI Express 3.0, USB 3.0, & SATA 3.0

## BENEFITS

- Occupies less PCB board space
- Flexible to meet various design needs
- Reduces overall height profile
- Supports higher data rates transmission



## TECHNICAL INFORMATION

### MATERIALS

- Housing: High Temperature Thermoplastic, UL 94 V-0
- Contact: Copper Alloy
- Peg: Copper Alloy
- Plating: Gold over Nickel

### ELECTRICAL PERFORMANCE

- Current rating: 0.5A DC
- Voltage: 50V AC

### ELECTRICAL PERFORMANCE

- Temperature: -40 °C to +80 °C
- Humidity Range: 10% – 80% RH

### MECHANICAL PERFORMANCE

- Durability: 60 cycles

### SPECIFICATIONS

- GS-12-1142

### APPROVALS AND CERTIFICATIONS

- NA

### PACKAGING

- Tape & Reel

### TARGET MARKET/ APPLICATIONS

- Consumer
  - Laptop
  - Ultra-books
  - Tablets
  - Desktop
- Data
  - Server
  - Solid State Drive (SSD)

## PART NUMBERS

Description	Part Number
P=0.5mm, H=3.2mm, Key B	10122501
P=0.5mm, H=4.0mm, Key B	10128793