

Datasheet

# M.2 (P42) 3TE4 B+M Key with Innodisk NAND

- PCIe Gen. III x2, NVMe 1.3
- DRAM-less Solution
- Anti-Vibration mechanical design
- Dynamic Thermal Management
- iPower Guard Protection
- iData Guard Data Protection



## Introduction

Innodisk M.2 (P42) 3TE4 B+M key is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 3TE4 B+M Key supports PCIe Gen III x 2 and it is compliant with NVMe 1.3 providing excellent top and also outstanding sustained performance. With sophisticated error detection and correction (ECC) functions, the module can ensure full End-to-End data path protection that secures the data transmission between host system and NAND Flash.

# M.2 (P42)

## 3TE4 B+M Key with Innodisk NAND

Contact us for more information about the M.2 (P42) 3TE4.

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.

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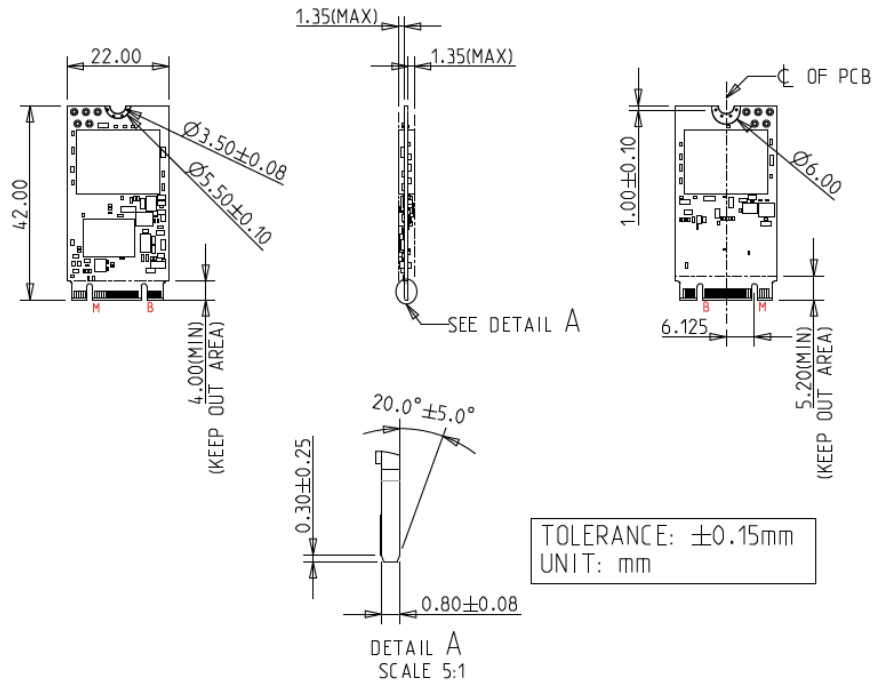
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### Diagram



|                              |                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Interface                    | PCIe Gen. III x2                                                                                                |
| Flash Type                   | 3D TLC                                                                                                          |
| P/E cycle                    | 3,000                                                                                                           |
| Capacity                     | 128GB~1TB                                                                                                       |
| Max. Channels                | 4                                                                                                               |
| Sequential R/W (MB/s, Max)   | 1,750/1,550                                                                                                     |
| Max. Power Consumption (RMS) | 3.3W                                                                                                            |
| Thermal Sensor               | √                                                                                                               |
| External DRAM buffer         | NA                                                                                                              |
| H/W Write Protect            | NA                                                                                                              |
| iCell                        | NA                                                                                                              |
| Dimension (WxLxH)            | 22.0 X 42.0 X 1.35 mm                                                                                           |
| Environment                  | Vibration: 20G @7~2000Hz<br>Shock: 1500G @ 0.5ms<br>Storage Temperature: -40°C ~ +85°C<br>MTBF: 3 million hours |

### Ordering Information

| Operation Temp.                 | 128GB             | 256GB             | 512GB             | 1TB               |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| Standard Grade<br>(0°C ~ +70°C) | DEM24-A28IB1KCCDL | DEM24-B56IB1KCCQL | DEM24-C12IB1KCCQL | DEM24-01TIB1KCCQL |