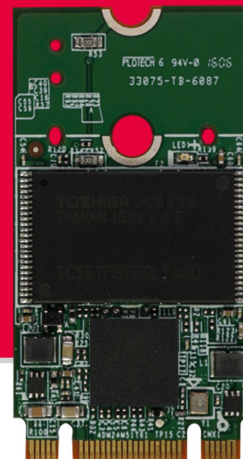


Datasheet

# M.2 (S42) 3ME4 series

- SATA III solution for industrial field
- Exclusive L<sup>3</sup> architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2242-D2-B-M standard
- Designed with hardware LDPC ECC engine



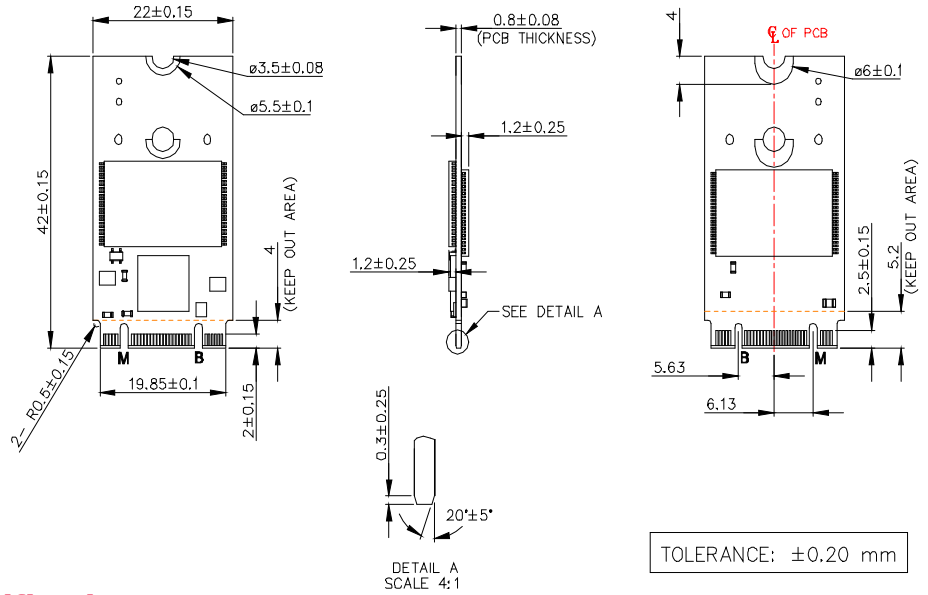
## Introduction

Innodisk M.2 (S42) 3ME4 is characterized by **L<sup>3</sup> architecture with the latest SATA III** (6.0GHz) Marvell NAND controller. Innodisk's exclusive L<sup>3</sup> architecture is L<sup>2</sup> architecture multiplied LDPC (Low Density Parity Check). L<sup>2</sup> (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan with exceptional reliability.

Innodisk M.2 (S42) 3ME4 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

# M.2 (S42) 3ME4 series

## Diagram



Contact us for more information about the M.2 (S42) 3ME4.

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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## Specifications

|                               |   |
|-------------------------------|---|
| Interface                     | SATA III  |
| Flash Type                    | MLC   |
| P/E cycle                     | 3,000   |
| Capacity                      | 8GB~256GB   |
| Max. Channels                 | 2   |
| Sequential R/W (MB/sec, max.) | 530/210   |
| Max. Power Consumption        | 1.4W (3.3V x 422 mA)  |
| Thermal Sensor                | √   |
| External DRAM buffer          | -   |
| H/W Write Protect             | Optional  |
| ATA Security                  | √   |
| S.M.A.R.T.                    | √   |
| Dimension (WxLxH)             | 22.0 X 42.0 X 3.2 mm  |
| Environment                   | Vibration: 20G @7~2000Hz<br>Shock: 1500G @ 0.5ms<br>Storage Temperature: -55°C ~ +95°C<br>MTBF: 3 million hours |

## Ordering Information

| Operation Temp.                     | 8GB               | 16GB                                   | 32GB              | 64GB              | 128GB             | 256GB             |
|-------------------------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|
| Standard Grade<br>(0°C ~ +70°C)     | DEM24-08GM41BC1SC | DEM24-16GM41BC1SC<br>DEM24-16GM41BC1DC | DEM24-32GM41BC1DC | DEM24-64GM41BC1DC | DEM24-A28M41BC1DC | DEM24-B56M41BCADC |
| Industrial Grade<br>(-40°C ~ +85°C) | DEM24-08GM41BW1SC | DEM24-16GM41BW1SC<br>DEM24-16GM41BW1DC | DEM24-32GM41BW1DC | DEM24-64GM41BW1DC | DEM24-A28M41BW1DC | DEM24-B56M41BWADC |