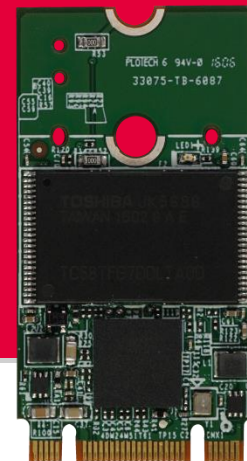


Datasheet

M.2 (S42) 3IE4 series

- SATA III solution for industrial field
- Exclusive L³ architecture
- Designed with hardware LDPC ECC engine
- Supported iData Guard protection
- DRAM-less, 100% data integrity
- Excellent random performance
- Supported TRIM/NCQ/SMART



Introduction

Innodisk M.2 (S42) 3IE4 is characterized by **L³ architecture with the latest SATA III** (6.0GHz) Marvell NAND controller. Innodisk's exclusive L³ architecture is L² architecture multiplied LDPC (Low Density Parity Check). L² (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) 3IE4 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)

3IE4 series

**Contact us for more information
about the M.2 (S42) 3IE4.**

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.

Headquarters (Taiwan)

5F., No. 237, Sec. 1, Datong Rd., Xizhi
Dist., New Taipei City 221, Taiwan
Tel: +886-2-7703-3000
Email: sales@innodisk.com

Branch Offices:

USA
usasales@innodisk.com
+1-510-770-9421
Europe
eusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
www.innodisk.com

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Specifications

| | |
|-------------------------------|---|
| Interface | SATA III |
| Flash Type | iSLC |
| P/E cycle | 20,000 |
| Capacity | 4GB~128GB |
| Max. Channels | 2 |
| Sequential R/W (MB/sec, max.) | 530/380 |
| Max. Power Consumption | 0.8 W (3.3V x 262 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 Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours |

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Ordering Information

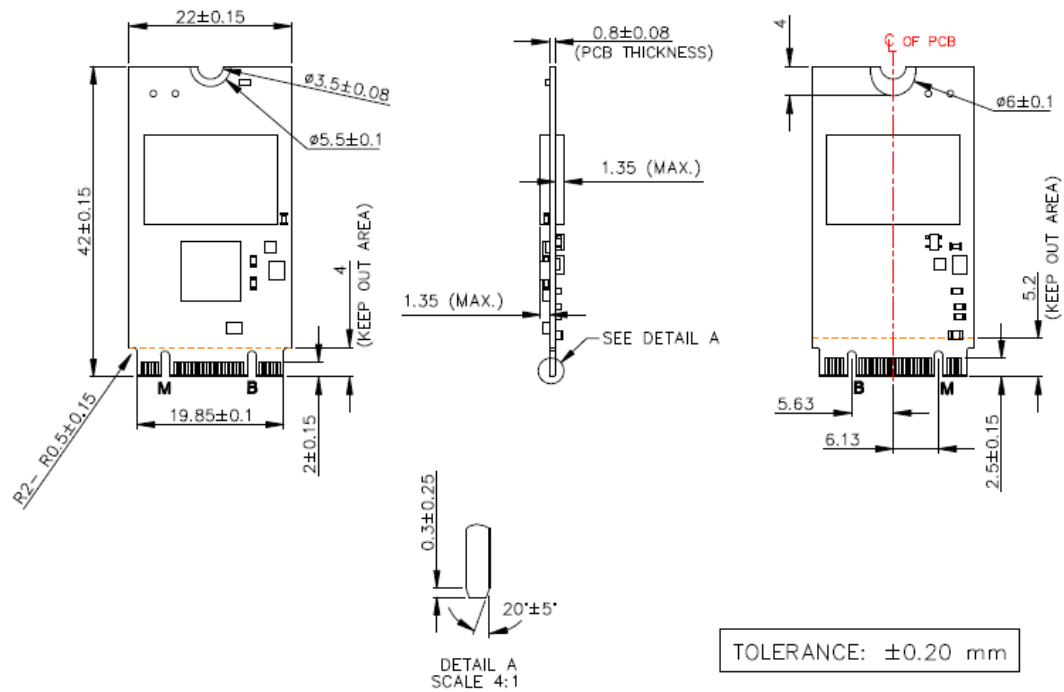
| Operation Temp. | 4GB | 8GB | 16GB | 32GB | 64GB | 128GB |
|-------------------------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Standard Grade (0°C ~ +70°C) | DHM24- 04GM41BC1SC | DHM24- 08GM41BC1SC DHM24- 08GM41BC1DC | DHM24- 16GM41BC1DC | DHM24- 32GM41BC1DC | DHM24- 64GM41BC1DC | DHM24- A28M41BCADC |
| Industrial Grade (-40°C ~ +85°C) | DHM24- 04GM41BW1SC | DHM24- 08GM41BW1SC DHM24- 08GM41BW1DC | DHM24- 16GM41BW1DC | DHM24- 32GM41BW1DC | DHM24- 64GM41BW1DC | DHM24- A28M41BWADC |



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Diagram

BGA version



TSOP version

