

Datasheet

CFast 3ME4 series

- Exclusive L³ architecture
- Designed with LDPC ECC engine
- DRAM-less, 100% data integrity
- Excellent random performance
- Wide Temperature: -40°C ~85 °C
- Supports TRIM/NCQ/SMART



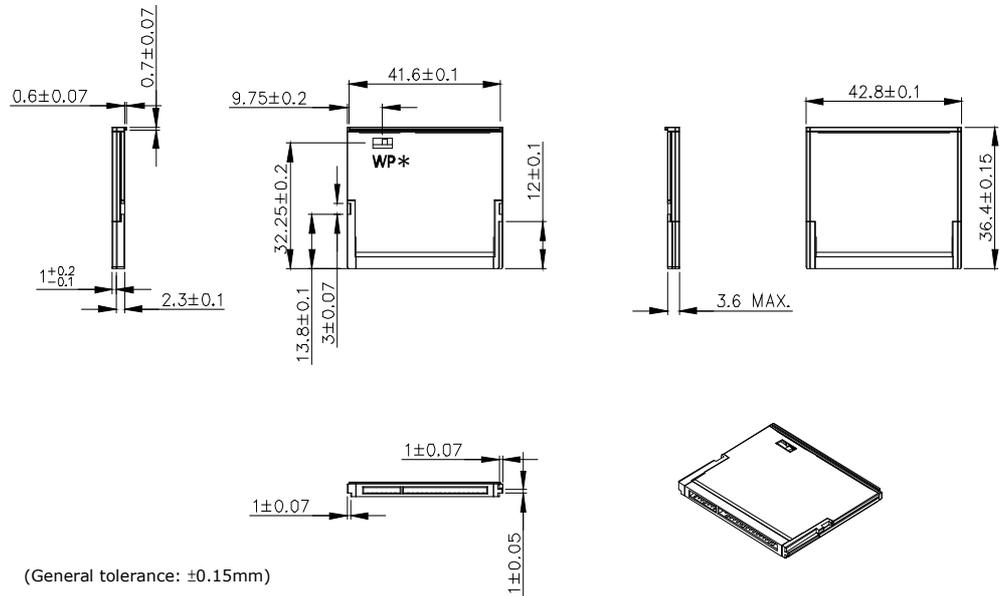
Introduction

Innodisk CFast 3ME4 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. Without additional driver, CFast 3ME4, featured as small form factor, can be configured as a boot device or data storage and is suitable for most industrial application. Supported with hardware write protection, CFast 3ME4 can prevent valuable data on a device from modification and deletion.

Innodisk CFast 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.

CFast 3ME4series

Drawing



(General tolerance: ±0.15mm)

Specifications

| | |
|-------------------------------|---|
| Interface | SATA III |
| Flash Type | MLC |
| Capacity | 8GB~256GB |
| Max. Channels | 2 |
| Sequential R/W (MB/sec, max.) | 530/210 |
| Max. Power Consumption | 1W |
| Thermal Sensor | ✓ |
| External DRAM Buffer | - |
| H/W Write Protect | Optional* |
| ATA Security | ✓ |
| S.M.A.R.T. | ✓ |
| Dimension (WxLxH) | 42.8X 36.4 X 3.6 mm |
| Environment | Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours |

Contact us for more information about the CFast 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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Ordering Information

| Operation Temp. | 8GB | 16GB | 32GB | 64GB | 128GB | 256GB |
|-------------------------------------|----------------------|--|----------------------|----------------------|----------------------|----------------------|
| Standard Grade (0°C ~ +70°C) | DECFA-08GM41BC1SC(W) | DECFA-16GM41BC1SC(W) DECFA-16GM41BC1DC(W) | DECFA-32GM41BC1DC(W) | DECFA-64GM41BC1DC(W) | DECFA-A28M41BC1DC(W) | DECFA-B56M41BC1DC(W) |
| Industrial Grade (-40°C ~ +85°C) | DECFA-08GM41BW1SC(W) | DECFA-16GM41BW1SC(W) DECFA-16GM41BW1DC(W) | DECFA-32GM41BW1DC(W) | DECFA-64GM41BW1DC(W) | DECFA-A28M41BW1DC(W) | DECFA-B56M41BW1DC(W) |

*H/W write protect function is optional.

(For the write protect demand, please place the order by PN: DECFA-xxxM41Bx1xCW)

*S:Single channel / D: Dual channel

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