

Datasheet

CFast 3IE2-P series

- SATA III solution for industrial field
- High Sequential/IOPS performance
- Intelligent error recovery system
- iSMART for disk health monitoring
- iData Guard for abnormal power failure
- Wide Temperature: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Supports TRIM/NCQ/SMART
- DEVSLP supported
- Support iSLC technology



Introduction

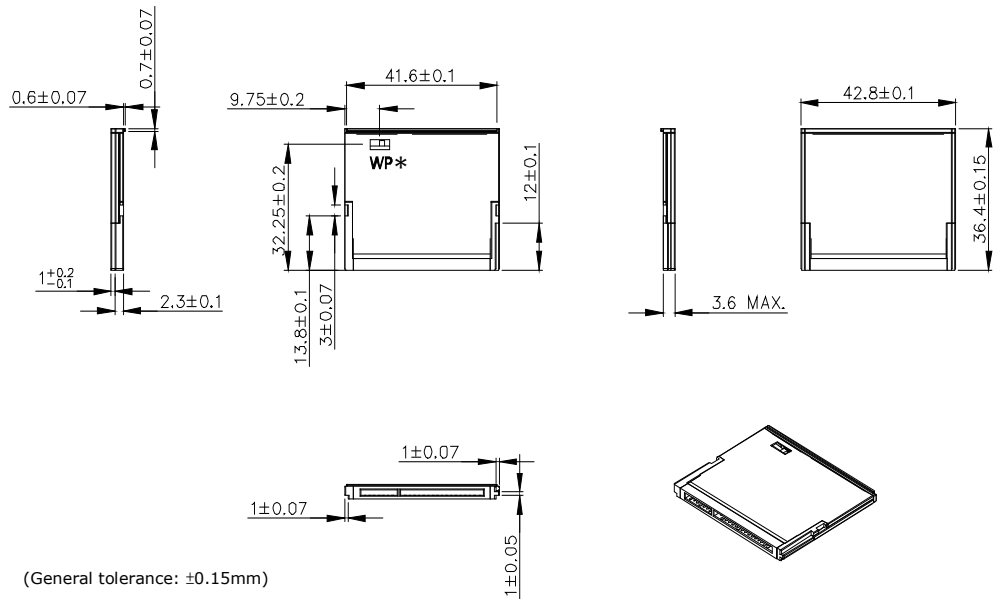
Innodisk CFast 3IE2-P is iSLC series which is designed to outdo the endurance, performance and reliability of MLC-based solutions. Through the use of flash management algorithms, iSLC improves SSD endurance up to 20,000 times, increasing lifespans up to 7 times longer than MLC-based solutions. In addition, iSLC improves the performance of solid state drives, with similar write performance of SLC-based solutions. The Innodisk iSLC series is cost efficient, boasting excellent benefits at only half the price of SLC-based solutions.

Innodisk CFast 3IE2-P is characterized by L^3 architecture with the latest SATA III (6.0GHz) SMI NAND controller. Innodisk's exclusive L^3 architecture is L^2 architecture multiplied LDPC (Low Density Parity Check). L^2 (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 CFast 3IE2-P 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 3IE2-P series

Drawing



(General tolerance: ±0.15mm)

Specifications

| | |
|-------------------------------|---|
| Interface | SATA III |
| Flash Type | iSLC |
| Capacity | 16GB~128GB |
| Max. Channels | 4 |
| Sequential R/W (MB/sec, max.) | 550/460 |
| Max. Power Consumption | 2.09W (3.3V) |
| Thermal Sensor | ✓ |
| External DRAM Buffer | Yes |
| 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: -40°C ~ +85°C MTBF: 3 million hours |

Contact us for more information about the CFAST 3IE2-P

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. | 16GB | 32GB | 64GB | 128GB |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|
| Standard Grade (0°C ~ +70°C) | DHCFA-16GD81BCADC(W) | DHCFA-32GD81BCAQC(W) | DHCFA-64GD81BCAQC(W) | DHCFA-A28D81BCAQC(W) |
| Industrial Grade (-40°C ~ +85°C) | DHCFA-16GD81BWADC(W) | DHCFA-32GD81BWAQC(W) | DHCFA-64GD81BWAQC(W) | DHCFA-A28D81BWAQC(W) |

*H/W write protect function is optional.

(For the write protect demand, please place the order by PN: DHCFA-xxxD81BxAxCW)

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