

Datasheet

# CFast 3IE4 series

- iSLC Technology
- Exclusive L<sup>3</sup> architecture
- Designed with LDPC ECC engine
- DRAM-less, 100% data integrity
- Excellent random performance
- Wide Temperature: -40°C ~85 °C
- Supports TRIM/NCQ/SMART
- Built in iData Guard



## Introduction

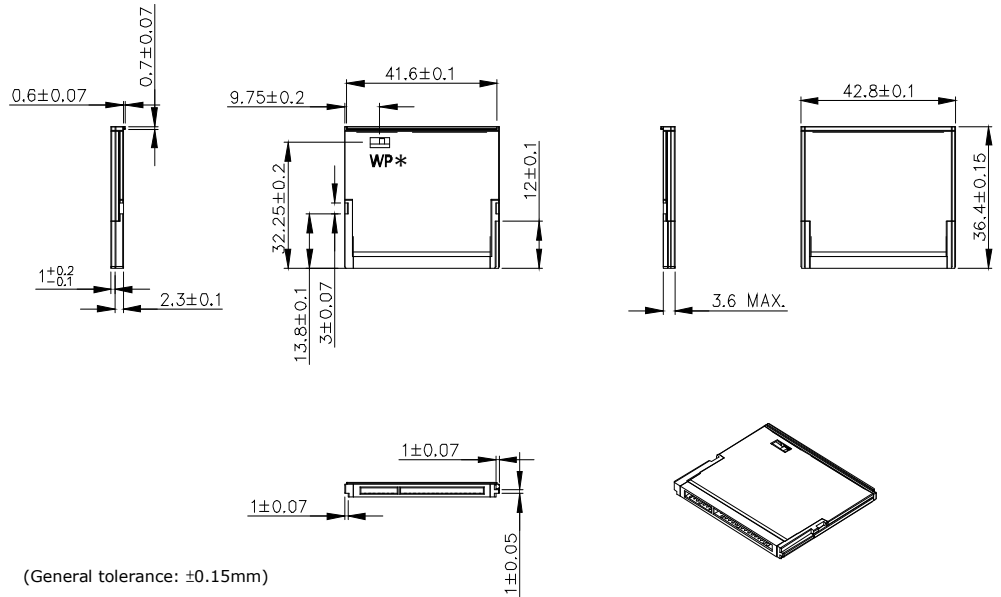
Innodisk CFast 3IE4 is iSLC series which is designed to outdo the endurance, performance and reliability of MLC-based solutions. Through the use of flash management algorithms, iSLC improves SSD endurance up to 20,000 times, increasing lifespans up to 7 times longer than MLC-based solutions. In addition, 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 3IE4 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 CFast 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.

# CFast 3IE4 series

## Drawing



(General tolerance: ±0.15mm)

## Specifications

Interface	SATA III
Flash Type	iSLC
Capacity	8GB~128GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	530/360
Max. Power Consumption	0.76W (230mA x 3.3V)
Thermal Sensor	ST- default / WT- default
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 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.

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## Ordering Information

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

\*H/W write protect function is optional.

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

\*S:Single channel / D: Dual channel