

Datasheet

2.5" SATA SSD

3IE7 series

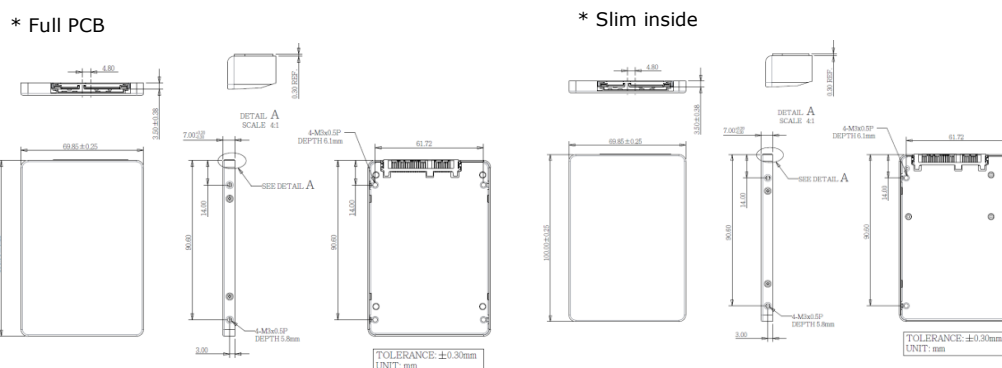
- 2.5" SATA SATA III solution for industrial field
- Support iSLC/Ultra iSLC technology
- High IOPS
- iSMART disk health monitoring
- iPower Guard Protection
- iData Guard for abnormal power failure



Introduction

Innodisk 2.5" SATA SSD 3IE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3IE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 2.5" SATA SSD 3IE7 for industrial applications.

Diagram



| | |
|--------------------------------|---|
| Interface | SATA III |
| Flash Type | iSLC (3D TLC) |
| Capacity | 40GB~640GB |
| Max. Channels | 4 |
| Sequential R/W (MB/sec, max.)* | 550 / 520 MB/s |
| 4KB Random (QD32) R/W (IOPS)** | 73,000/59,000 |
| Max. Power Consumption | 3.3 W |
| Thermal Sensor | √ |
| External DRAM Buffer | - |
| H/W Write Protect | - |
| ATA Security | √ |
| S.M.A.R.T. | √ |
| Dimension (WxLxH) | 69.8 X 100.0 X 6.8 mm |
| Environment | Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours |

* Sequential performance based on CystalDiskMark 6.0.2 with file size 1000MB of Queue Depth 32

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Ordering Information (Please refer to TPS for detail)

| Operation Temp. | 40GB | 80GB | 160GB | 320GB | 640GB |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Standard Grade (0°C ~ +70°C) | DHS25-40GDK1%CCDL | DHS25-80GDK1%CC&L | DHS25-A60DK1%CCQL | DHS25-D2GDK1%CCQL | DHS25-F4GDK1%CCQL |
| Industrial Grade (-40°C ~ +85°C) | DHS25-40GDK1%WCDL | DHS25-80GDK1%WC&L | DHS25-A60DK1%WCQL | DHS25-D2GDK1%WCQL | DHS25-F4GDK1%WCQL |

%. G: 96 layers 3D TLC; K: 112 layers 3D TLC

&. D: 2 channels; Q: 4 channels