

Datasheet

2.5" SATA SSD

3TE7 series

- 2.5" SATA Slim SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure



Introduction

Innodisk 2.5" SATA SSD 3TE7 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 3TE7 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 3TE7 for industrial applications.

2.5" SATA SSD

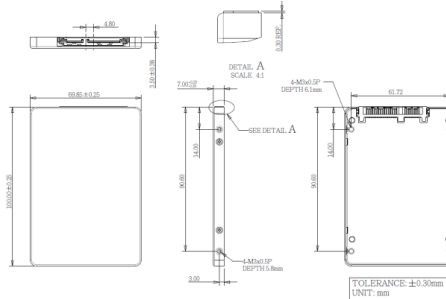
3TE7 series

Diagram

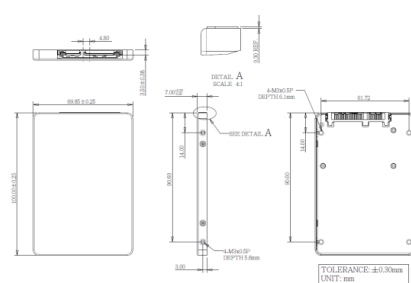
Contact us for more information about the 2.5" SATA SSD 3TE7.

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

* DES25-XXXDK1XX%X (X=1 or A)



* DES25-XXXDK1XX%X (X=3 or C)



Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~2TB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 520 MB/s
4KB Random (QD32) R/W (IOPS)**	82,000/74,000
Max. Power Consumption	2.1W
Thermal Sensor	✓
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	✓
S.M.A.R.T.	✓
Dimension (WxLxH)	69.8 X 100.0 X 7.0 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours
* Performance based on CrystalDiskMark 6.0.2 with file size 1000MB	

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Ordering Information (Please refer to TPS for detail)

20210730

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-32GDK1EC3SF	DES25-64GDK1EC*DF	DES25-A28DK1%C3QF DES25-A28DK1%C*DF	DES25-B56DK1%C*QF	DES25-C12DK1%C*QF	DES25-01TDK1%C*QF	DES25-02TDK1%C*QF
Industrial Grade (-40°C ~ +85°C)	DES25-32GDK1EW3SF	DES25-64GDK1EW*DF	DES25-A28DK1%W3QF DES25-A28DK1%W*DF	DES25-B56DK1%W*QF	DES25-C12DK1%W*QF	DES25-01TDK1%W*QF	DES25-02TDK1%W*QF

%. E: 64 layers 3D TLC; G: 96 layers 3D TLC; K: 112 layers 3D TLC
*. PCB version control

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