

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

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.

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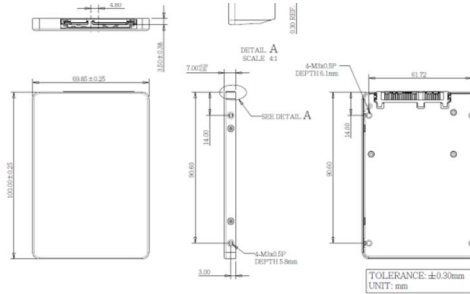
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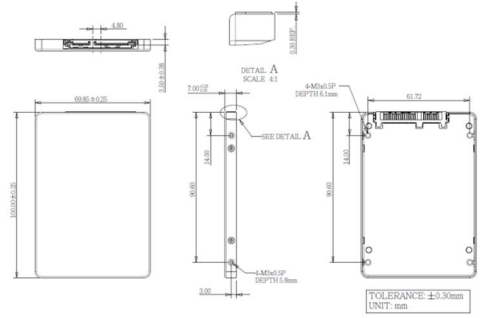
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Diagram

* DES25-XXXDK1GX3XL (64GB~512GB) & DES25-XXXDK1KXCXL (128GB~2TB)



* DES25-XXXDK1GXXQL (1TB ~ 2TB)



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)*	84,000/72,000
Max. Power Consumption	3.9 W
Thermal Sensor	✓
External DRAM Buffer	-
H/W Write Protect	Optional
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 CrystalDiskMark 5.1.2 with file size 1000MB	

Ordering Information (Please refer to TPS for detail)

Operation Temp.	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-64GDK1%C*SL	DES25-A28DK1%C*DL	DES25-B56DK1%C*&L	DES25-C12DK1%C*QL	DES25-01TDK1%C*QL	DES25-02TDK1%C*QL
Industrial Grade (-40°C ~ +85°C)	DES25-64GDK1GW3SL	DES25-A28DK1GW3DL	DES25-B56DK1GW3QL	DES25-C12DK1GW3QL	DES25-01TDK1GW1QL	DES25-02TDK1GWAQL

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

*: PCB version control

&. D=Dual Channels; Q= Quad Channels