

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.

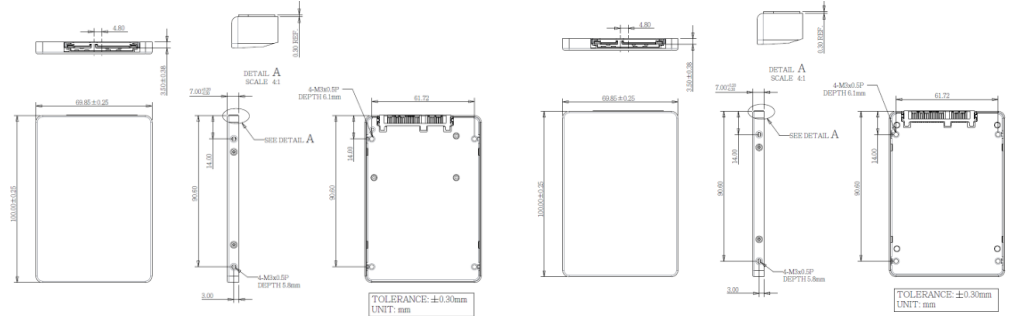
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Diagram

* DES25-XXXDK1EXXXL(32GB~256GB)

* DES25-XXXDK1EXXXL(512GB)



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)*	82,000/72,000
Max. Power Consumption	3.6 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: -55°C ~ +95°C MTBF: 3 million hours

* Sequential performance based on CystalDiskMark 5.1.2 with file size 1000MB

Ordering Information

(Please refer to TPS for detail)

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DES25-32GDK1C3SL	DES25-64GDK1*C3DL	DES25-A28DK1EC3QL DES25-A28DK1GC3DL	DES25-B56DK1*C3QL	DES25-C12DK1*C3QL	DES25-01TDK1*C1QL	DES25-02TDK1*CAQL
Industrial Grade (-40°C ~ +85°C)	DES25-32GDK1EW3SL	DES25-64GDK1*W3DL	DES25-A28DK1EW3QL DES25-A28DK1GW3DL	DES25-B56DK1*W3QL	DES25-C12DK1*W3QL	DES25-01TDK1*W1QL	DES25-02TDK1*WAQL
Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C) 112 layers 3D TLC	X	DES25-64GDK1KCCSL	DES25-64GDK1KCCDL	DES25-64GDK1KCCDL DES25-64GDK1KCCQL	DES25-64GDK1KCCQL	DES25-64GDK1KCCQL	DES25-64GDK1KCCQL

*, E: 64 layers 3D TLC; G: 96 layers 3D



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