Datasheet

SATADOM-SV
3TE7 series

- SATA III soultion for industrial field
- Exclusive L^3 architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Designed with hardware LDPC ECC engine
- Built-in Pin 8 power supply

Introduction

Innodisk SATADOM-SV 3TE7 is characterized by L^3 architecture with the latest SATA III (6.0GHz) Marvell NAND controller. Innodisk's exclusive L^3 architecture is L^2 architecture multiplied LDPC (Low Density Parity Check). L^2 (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.
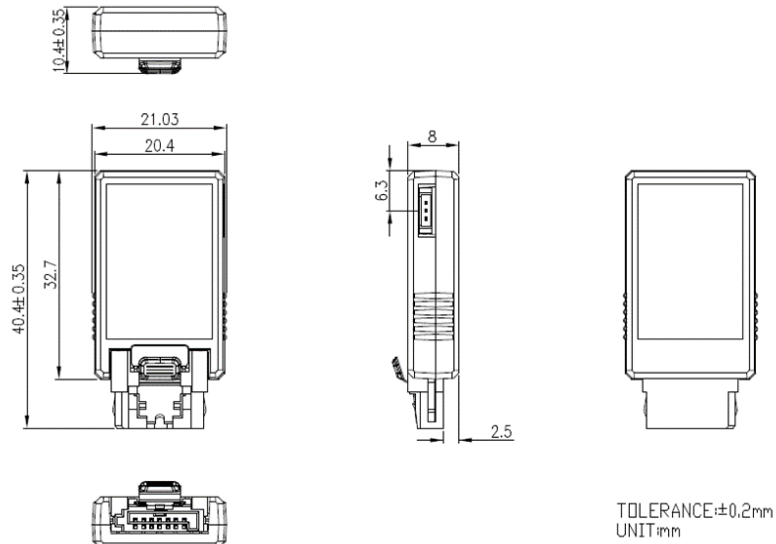
Innodisk SATADOM-SV 3TE7 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

The innovative Pin 8 uses the SATA connector itself as a power supply to drive the device without external cables. It could be connected directly to the SATA on-board socket on customer's system without additional power cable. Besides, the booting time for operation and the power consumption is less than hard disk drive (HDD), and can work under harsh environment compile with ATA protocol, no additional drives are required, and the SSD can be configured as a boot device or data storage device.

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Diagram

TOLERANCE:±0.2mm
UNIT:mm

Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~512GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	550/490
Max. Power Consumption	1.7W
Thermal Sensor	√
Extended DRAM buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	40.4 x 21.03 x 10.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

20210204

Ordering Information

	32GB	64GB	128GB		256GB	512GB
			1CH	2CH		
Standard Grade (0°C ~ +70°C)	DESSV-32GDK1EC1SF*	DESSV-64GDK1EC1SF*	DESSV-A28DK1EC1SF*	DESSV-A28DK1**CADF*	DESSV-B56DK1**CADF*	DESSV-C12DK1GCADF*
Industrial Grade (-40°C ~ +85°C)	DESSV-32GDK1EW1SF*	DESSV-64GDK1EW1SF *	DESSV-A28DK1EW1SF *	DESSV-A28DK1EWADF*	DESSV-B56DK1EWADF*	N/A

*=A-> Pin 8+ power cable / *=B-> Pin 8+ Pin 7
**=C-> 64 layers 3D Flash / **=G-> 96 layers 3D Flash