Datasheet

M.2 (S42) 3SE3 series

- SATA III soultion for industrial field
- Innovative Firmware Algorithm
- DRAM-less, 100% data integrity
- Excellent random performance
- Wide Temperature: -40°C ~85 °C
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- iSMART disk health monitoring
- Compatible with M.2 2242-D1-B-M



Introduction

Innodisk M.2 (S42) 3SE3 is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2(NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S42) 3SE3 absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3SE3 effectively reduces the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device.



Contact us for more information about the M2 (S42) 3SE3.

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

M.2 (S42) 3SE3 series

Diagram





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Specifications

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Interface	SATA III		
Flash Type	SLC		
Capacity	4GB~32GB		
Max. Channels	2		
Sequential R/W (MB/sec, max.)	210 / 110		
Max. Power Consumption	1.2 W (3.3V x 366 mA)		
Thermal Sensor	ST- optional/ WT- default		
External DRAM buffer	-		
H/W Write Protect	-		
ATA Security	\checkmark		
S.M.A.R.T.	\checkmark		
Dimension (WxLxH)	22.0 X 42.0 X 3.5 mm		
Environment	Vibration: 20G @7~2000Hz		
	Shock: 1500G @ 0.5ms		
	Storage Temperature: -55°C ~ +95°C		
	MTBF: 3 million hours		

Ordering Information

Operation Temp.	4GB	8GB	16GB	32GB
Standard Grade	DEM24-	DEM24-	DEM24-	DEM24-
(0°C ~ +70°C)	04GD09SCADB	08GD09SCADB	16GD09SCADB	32GD09SCADB
industrial Grade	DEM24-	DEM24-	DEM24-	DEM24-
(-40°C ~ +85°C)	04GD09SWADB	08GD09SWADB	16GD09SWADB	32GD09SWADB

