

FiD 2.5" SATA 25000



Features

- Excellent data transfer speed
- Support Thermal Sensor
- S.M.A.R.T. & i-S.M.A.R.T. supported
- Intelligent system for error recovery
- Mechanical design for anti-vibration
- Support iCell Technology

R:250MB/s
W:230MB/s

SATA II
3Gb/s

ECC &
Wear leveling

Thermal
sensor

S.M.A.R.T

iCell
Technology

Specifications

Connector Type	Standard 7+15 pin SATA connector
Flash Type	SLC (Single-Level Cell)
Density	8GB, 16GB, 32GB, 64GB, 128GB, 256GB
Interface	SATA II 3.0Gb
Sustained R/W Performance	Read : 250 MB/sec (max.) Write : 230 MB/sec (max.)

Environmental

DC Input	+5V DC $\pm$ 5%
Power consumption (Max.)	Read: 580 mA Write: 700 mA Idle: 250 mA
Operating Temperature	0°C~+70°C (Standard Grade) -40°C~+85°C (Industrial Grade)
Storage Temperature	-55°C~+95°C
Humidity	Relative Humidity: 10-95%, non-condensing
Flash Endurance	100,000 program/erase cycles
MTBF	> 3,000,000 hours
Certification	CE, FCC, RoHS
Warranty	5 years

Mechanicals

Dimension (W x L x H)	69.85x100.10x9.30 mm
Weight	95g $\pm$ 5g
Vibration	20G, 7 Hz to 2K Hz, 3 axes
Shock	1500G, Duration: 0.5ms, 3 axes

Health monitoring Tool

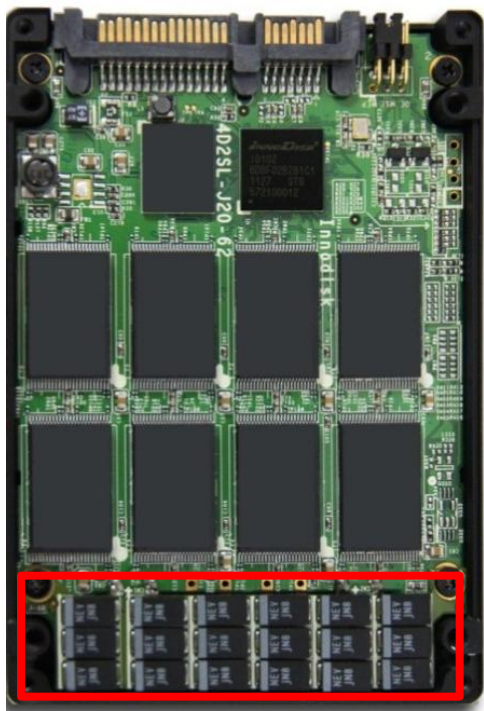
S.M.A.R.T.	Supported
i-S.M.A.R.T.	Supported (Utility for Windows, Linux)

Ordering Information

Capacity	Standard Grade	Industrial Grade
16GB	D2SN- <u>16G</u> J20A <u>C</u> 3EB	D2SN- <u>16G</u> J20A <u>W</u> 3EB
32GB	D2SN- <u>32G</u> J20A <u>C</u> 3EB	D2SN- <u>32G</u> J20A <u>W</u> 3EB
64GB	D2SN- <u>64G</u> J20A <u>C</u> 3EB	D2SN- <u>64G</u> J20A <u>W</u> 3EB
128GB	D2SN- <u>A28</u> J20A <u>C</u> 3EB	D2SN- <u>A28</u> J20A <u>W</u> 3EB
256GB	D2SN- <u>B56</u> J20A <u>C</u> 3EB	D2SN- <u>B56</u> J20A <u>W</u> 3EB

iCell technology for data protection and power cycling protection

SATA25000 is designed with voltage detector circuit. While abnormal power-off occurs, the detector circuit can detect the lower voltage caused by the sudden power shut off and get this feedback to SSD controller. Once SSD controller is received this feedback signal, SSD firmware will trigger the mechanism to write the data in the data buffer. As a result, iCell is able to provide power, even while power shut off, and there is no data loss happened to the SSD.



Integrated Thermal Sensor

As the speed of the SSD product get faster and faster, overall power consumption continues to increase. Accordingly, it brings a new concern: thermal management. The advantage of Thermal Sensor is that it will allow the SSD to either change the speed or throttle back on the flash accesses to allow the SSD to stay within temperature limits and prevent any reliability failures due to overheating.

