

Datasheet

2.5" SATA SSD

3MG2-P series

- 2.5" SATA III solution for industrial field
- 7mm height mechanical design
- High IOPS
- Intelligent error recovery system
- iSMART disk health monitoring
- iData Guard for abnormal power failure
- iCell technology for data protection (optional)
- DEVSLP supported



Introduction

Innodisk 2.5" SATA SSD 3MG2-P is SATA III 6Gb/s flash based disk, which delivers excellent performance, especially in random data transfer rate, and which offers reliability making it the ideal solution for a variety of applications, including embedded system, industrial computing, and enterprise field. 3MG2-P 2.5" SSD not only performs unmatched performance, but also designed with Innodisk owned technical knowhow to ensure the data integrity and highest levels of reliability. Additionally, 3MG2-P SATA SSD can support device sleep mode (DEVSLP) and thus be able to benefit in extreme low power consumption.

Drawing

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.

Interface	SATA III
Flash Type	MLC
Capacity	8GB~2TB (2TB is compliant with 9.5 mm height housing)
Max. Channels	4
Sequential R/W (MB/sec, max.)*	520 / 480 MB/s
4KB Random (QD32) R/W (IOPS)*	70,000/64,000
Max. Power Consumption	6 W (5V x 1.2A)
Thermal Sensor	√
External DRAM Buffer	√
H/W Write Protect	–
ATA Security	√
S.M.A.R.T.	√
DEVSLP Mode	√ (min. power consumption 3mW)
Slumber Mode	√ (min. power consumption 30mW)
Dimension (WxLxH)	69.85 X 100.0 X 6.9 mm(8GB-1TB) 69.85 X 100.0 X 9.5 mm(2TB)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

* Sequential performance based on CystalDiskMark 3.03 with file size 1000MB

5F., No.237, Sec. 1, Datong Rd.,
Xizhi Dist., New Taipei City,
Taiwan (R.O.C.)
Tel: +886-2-77033000
Email: sales@innodisk.com

USA
usasales@innodisk.com

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Ordering Information (Please refer to TPS for detail)

Operation Temp.	8GB	16GB	32GB	64GB	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DGS25-08GD01* C3SC DGS25-08GD01* C15C(P)	DGS25-16GD01* C3DC DGS25-16GD01* C1DC(P)	DGS25-32GD01* C3QC DGS25-32GD01* C1QC(P) DGS25-32GD01* C1DC(P) DGS25-32GD01* CADN(P)	DGS25-64GD01* C1QC(P) DGS25-64GD01* CAQN(P)	DGS25-A28D01* C1QC(P) DGS25-A28D01* CAQN(P)	DGS25-B56D01* C1QCP DGS25-B56D01* CAQN(P) DGS25-C12D01* C1QC(P) DGS25-C12D01* CAQN(P) DGS25-B56D01* C3QC	DGS25-C12D01* C1QC(P) DGS25-C12D01* CAQN(P)	DGS25-01TD01* CAQC(P) DGS25-01TD01* CAQN(P)	DGS25-02TD01* CAQC DGS25-02TD01* CAQN
Industrial Grade (-40°C ~ +85°C)	DGS25-08GD01* W3SC DGS25-08GD01* W15C(P)	DGS25-16GD01* W3DC DGS25-16GD01* W1DC(P)	DGS25-32GD01* W3QC DGS25-32GD01* W1QC(P) DGS25-32GD01* W1DC(P) DGS25-32GD01* WADN(P)	DGS25-64GD01* W1QC(P) DGS25-64GD01* WAQN(P)	DGS25-A28D01* W1QC(P) DGS25-A28D01* WAQN(P)	DGS25-B56D01* W1QCP DGS25-B56D01* WAQN(P) DGS25-C12D01* W1QC(P) DGS25-C12D01* WAQN(P) DGS25-B56D01* W3QC	DGS25-C12D01* W1QC(P) DGS25-C12D01* WAQN(P)	DGS25-01TD01* WAQC(P) DGS25-01TD01* WAQN(P)	DGS25-02TD01* WAQC DGS25-02TD01* WAQN

*S: Toshiba A19nm MLC and Micron 16nm MLC/ B: Toshiba 15nm