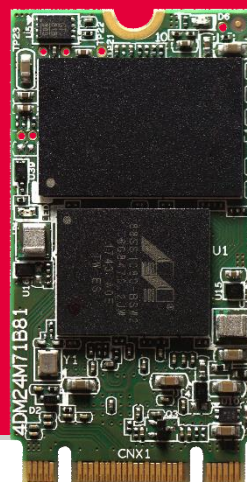


Datasheet

M.2 (S42) 3TG6-P AES series

- SATA III solution for industrial field
- Exclusive L³ architecture
- AES-256bits encryption
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2242-D2-B-M standard
- Designed with hardware LDPC ECC engine



Introduction

Innodisk M.2 (S42) 3TG6-P is SATA III 6.0 Gb/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. M.2 (S42) 3TG6-P not only performs unmatched performance, but also designed with Innodisk owned technical knowhow to ensure the data integrity and highest levels of reliability. Innodisk M.2 (S42) 3TG6-P is designed with AES engine, which is a built-in controller. When controller receives the data package from host, AES engine encrypts the data package and saves the encrypted data into NAND flash. Thus, unauthorized personal has no access to decrypt the data in NAND flash.

Innodisk M.2 (S42) 3TG6-P 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.

M.2 (S42)

3TG6-P AES series

Diagram

Contact us for more information
about the M.2 (S42) 3TG6-P

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.

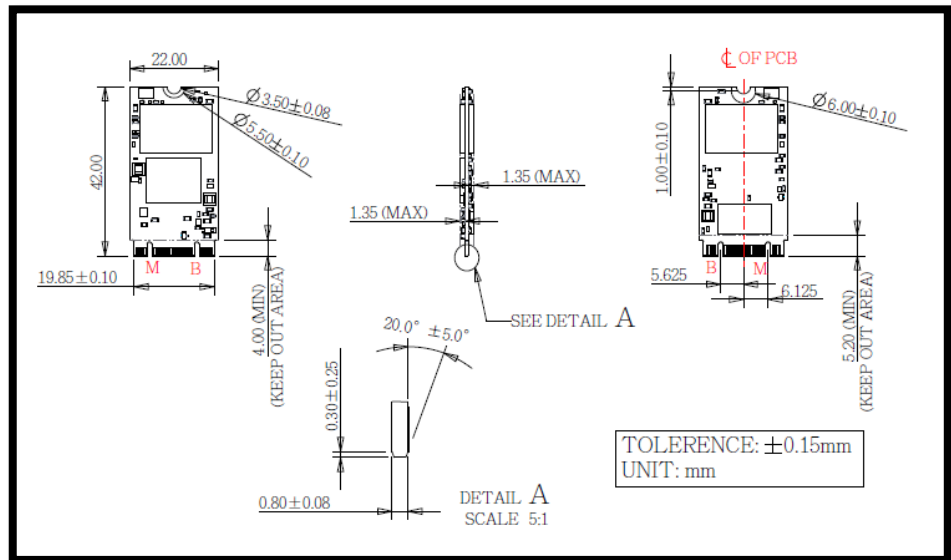
Headquarters (Taiwan)

5F., No. 237, Sec. 1, Datong Rd., Xizhi
Dist., New Taipei City 221, Taiwan
Tel: +886-2-7703-3000
Email: sales@innodisk.com

Branch Offices:

USA
usales@innodisk.com
+1-510-770-9421
Europe
eusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
www.innodisk.com

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Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	128GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	510/450
Max. Power Consumption	3.2
Thermal Sensor	✓
External DRAM buffer	✓
H/W Write Protect	-
ATA Security	✓
S.M.A.R.T.	✓
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.	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DGM24-A28M72EC*QF	DGM24-B56M72EC*QF	DGM24-C12M72EC*QF
Industrial Grade (-40°C ~ +85°C)	DGM24-A28M72EW*QF	DGM24-B56M72EW*QF	DGM24-C12M72EW*QF

*, PCB version control