M.2 (S42)
3MG2-P AES series

- SATA 6Gb/s interface
- Hardware-based AES 256bits key
- Compliant with TCG OPAL 2.0
- Complaint with IEEE 1667
- Intelligent error recovery system
- Excellent data transfer speed
- iSMART disk health monitoring

Introduction

Innodisk M.2 (S42) 3MG2-P 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) 3MG2-P absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3MG2-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) 3MG2-P supports several standard features, including TRIM, NCQ and S.M.A.R.T, and is compliant with TCG OPAL 2.0 and IEEE 1667.
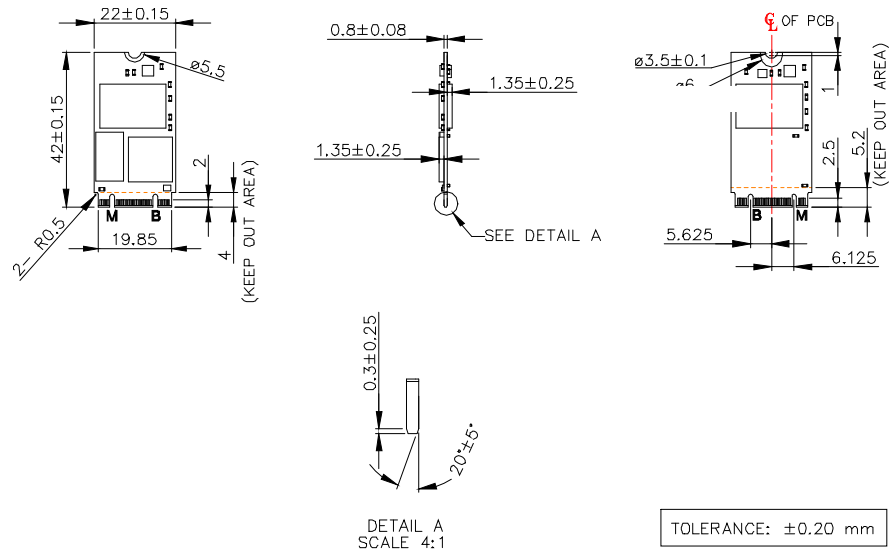
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Diagram

DETAIL A
SCALE 4:1

TOLERANCE: ±0.20 mm

Specifications

Interface	SATA III
Flash Type	MLC
P/E cycle	3,000
Capacity	32GB~256GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/350
Max. Power Consumption	1.4 W (3.3V x 420 mA)
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.	32GB	64GB	128GB	256GB
Standard Grade (0°C ~ +70°C)	DGM24-32GD82BCADC	DGM24-64GD82BCAQC	DGM24-A28D82BCAQC	DGM24-B56D82BCAQC
Extended Grade (-40°C ~ +85°C)	DGM24-32GD82BWADC	DGM24-64GD82BWAQC	DGM24-A28D82BWAQC	DGM24-B56D82BWAQC