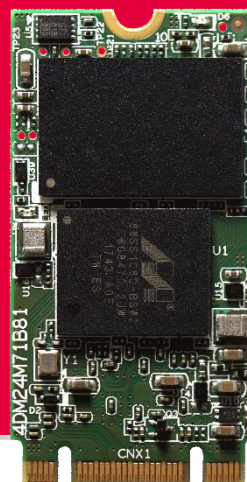Datasheet

M.2 (S42)
3SE2-P AES series

- SATA III solution for industrial field
- 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) 3SE2-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) 3SE2-P absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3SE2-P 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. Innodisk M.2 (S42) 3SE2-P is designed with AES engine, which is built-in the 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.

M.2 (S42)
3SE2-P AES series

Diagram
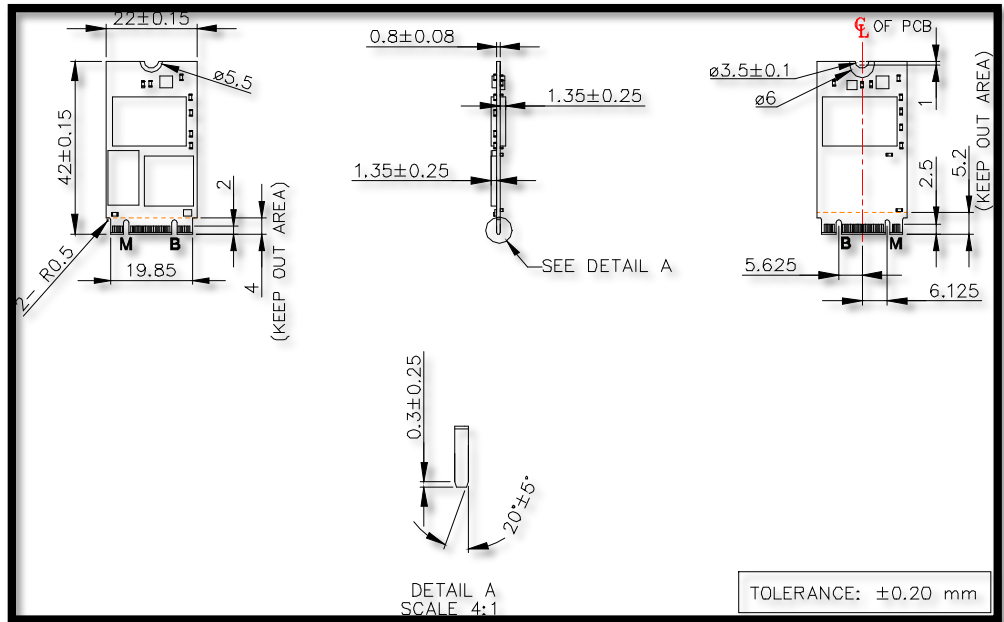
Specifications

Interface	SATA III
Flash Type	SLC
Capacity	8GB / 16GB / 32GB / 64GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	550/330
Max. Power Consumption	1.55W (470mAx3.3V)
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.	8GB	16GB	32GB	64GB
Standard Grade (0°C ~ +70°C)	DEM24-08GD82SCBDB	DEM24-16GD82SCBQB	DEM24-32GD82SCBQB	DEM24-64GD82SCBQB
Industrial Grade (-40°C ~ +85°C)	DEM24-08GD82SWBDB	DEM24-16GD82SWBQB	DEM24-32GD82SWBQB	DEM24-64GD82SWBQB