Apacer

The Most **Reliable**
Storage For Industries

SV250-M242

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Overview

Apacer's SV250-M242 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 Gbps interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

SV250-M242 utilizes 3D NAND for higher capacity up to 480GB and provides more power efficiency than 2D NAND. Regarding reliability, SV250-M242 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability while reading raw data inside a flash chip. In addition, the drive comes with various implementations including powerful hardware ECC engine, power saving modes, wear leveling, flash block management, S.M.A.R.T., TRIM, and DataDefender™.

In terms of security, Advanced Encryption Standard (AES) and Trusted Computing Group (TCG) Opal ensure data security and provide users with a peace of mind knowing their data is safeguarded against unauthorized use at all times. Furthermore, with End-to-End Data Protection, data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers.
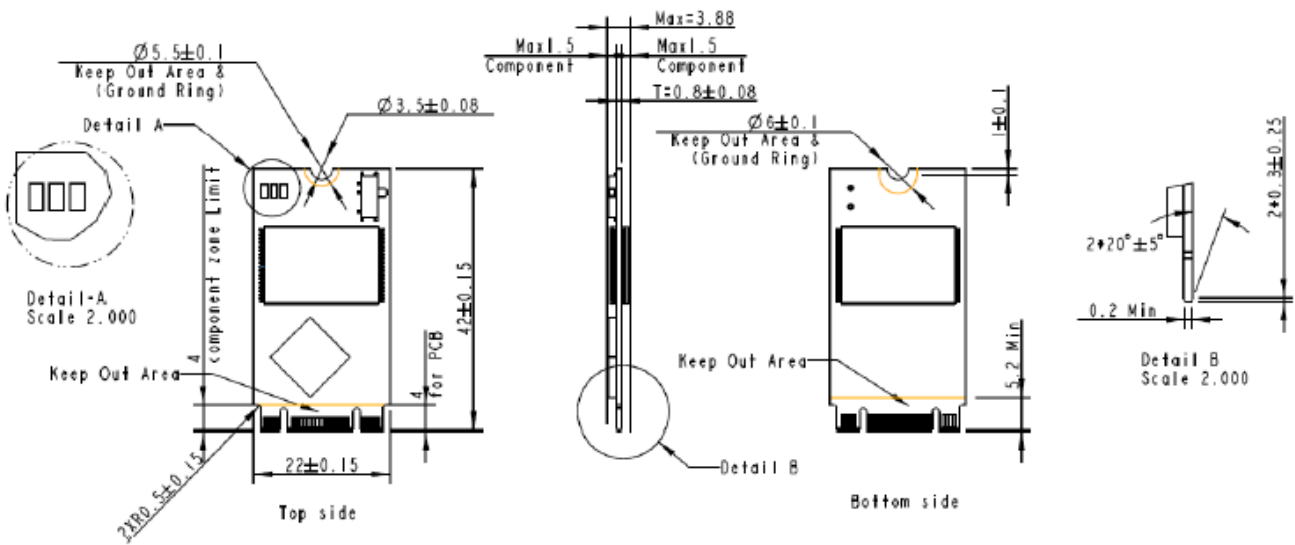
Feature

· Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability

· Global Wear Leveling

· Flash bad-block management

· 4K Page Mapping

· Built-in ATA Secure Erase and S.M.A.R.T. Functions

· DEVSLP support

· TRIM support

· Hyper Cache Technology

· Over-Provisioning

· Supports DataRAID™, DataDefender™ and SMART Read Refresh™ technologies

Specifications

Model	SV250-M242
Interface	SATA 3.0 (6Gb/s)
Connector	M.2 B & M key
Form Factor	M.2 2242-D5-B-M
NAND Flash Type	3D TLC
Capacity	30GB~480GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 520
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	75K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3V $\pm$ 5% (3.135-3.465V)
Power Consumption	Active mode: 405 mA / Idle mode: 70 mA
Dimension (L x W x H)	42.00 x 22.00 x 3.80 (mm)
MTBF (hours)	>1,000,000

Mechanical Specification

Unit: mm

For more information,
contact your Apacer representative

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