

The Most **Reliable** Storage For Industries

SV250-300B



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Overview

Apacer's SV250-300B 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.

SV250-300B utilizes 3D NAND for higher capacity up to 240GB and provides more power efficiency than 2D NAND. SV250-300B is believed to be the leading add-in storage solution for future host computing systems. Regarding reliability, SV250-300B 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.



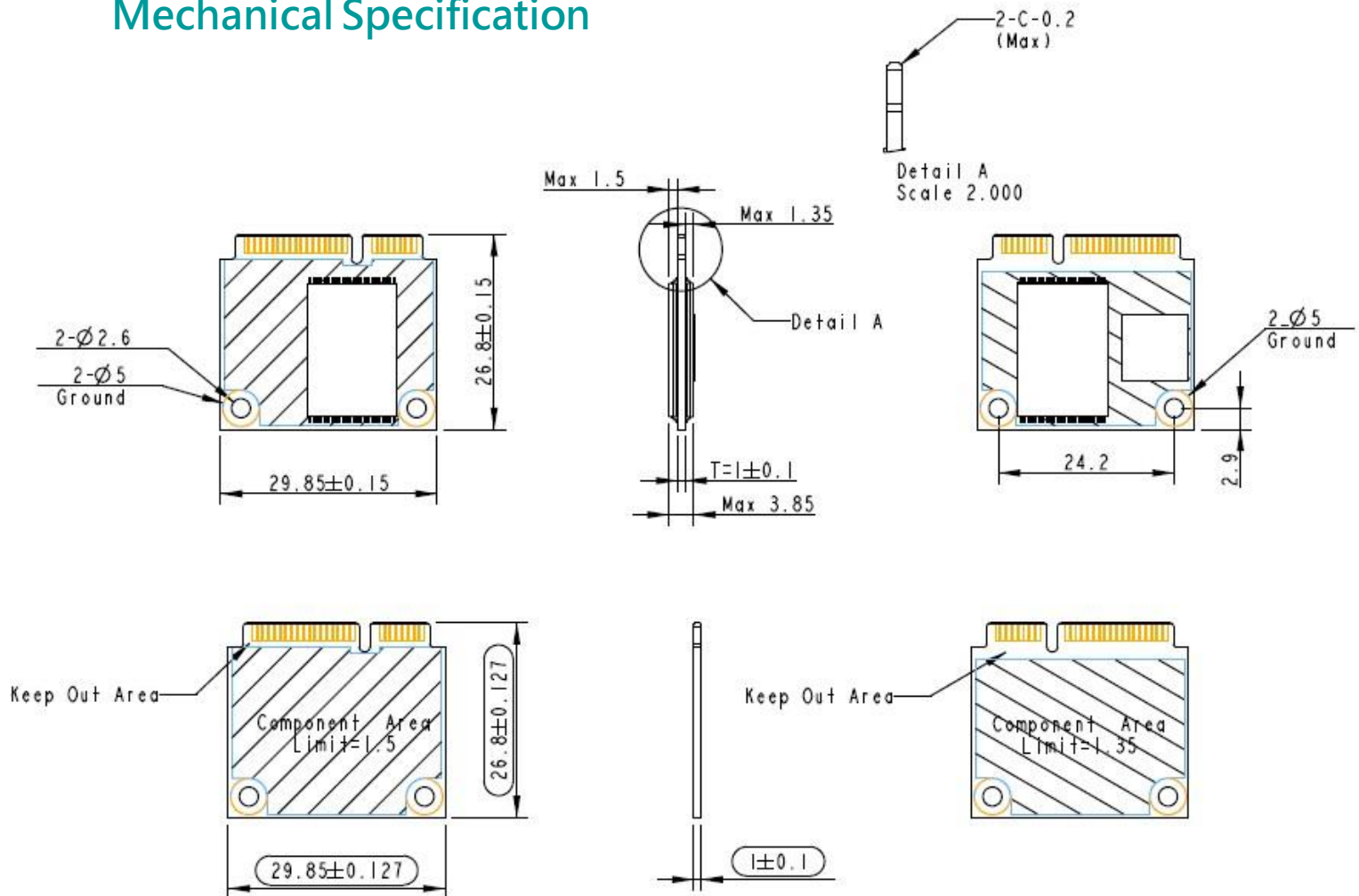
Feature

- Support LDPC ECC
- Global Wear Leveling technology
- S.M.A.R.T. and SSDWidget support
- End-to-End Data Protection
- TRIM Support
- Support TCG Opal 2.0/AES 256-bit encryption
- DataRAID™
- DataDefender™

Specifications

Model	SV250-300B
Interface	SATA 3.2 (6Gb/s)
Connector	52-pin mSATA connector
Form Factor	mSATA mini, JEDEC MO-300B
NAND Flash Type	3D TLC
Capacity	30GB~240GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 510
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	74K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G/11ms 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	3.3 V ±5%
Power Consumption	Active mode:425 mA / Idle mode: 115 mA
Dimension (L x W x H)	29.85 x 26.80 x 3.85 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

**For more information,
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