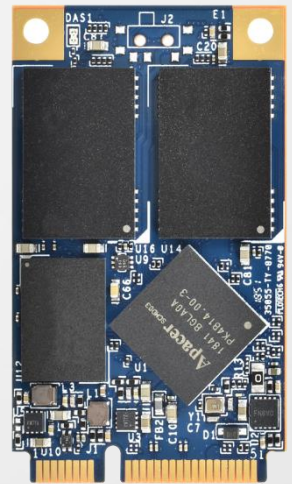# Apacer

The Most **Reliable**
Storage For Industries

SV240-300

SV240-300

Overview

Apacer's SV240-300 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6 Gb/s interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

SV240-300 utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND. Regarding reliability, SV240-300 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) ensures data security and provide users with a peace of mind. 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.

*The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance.
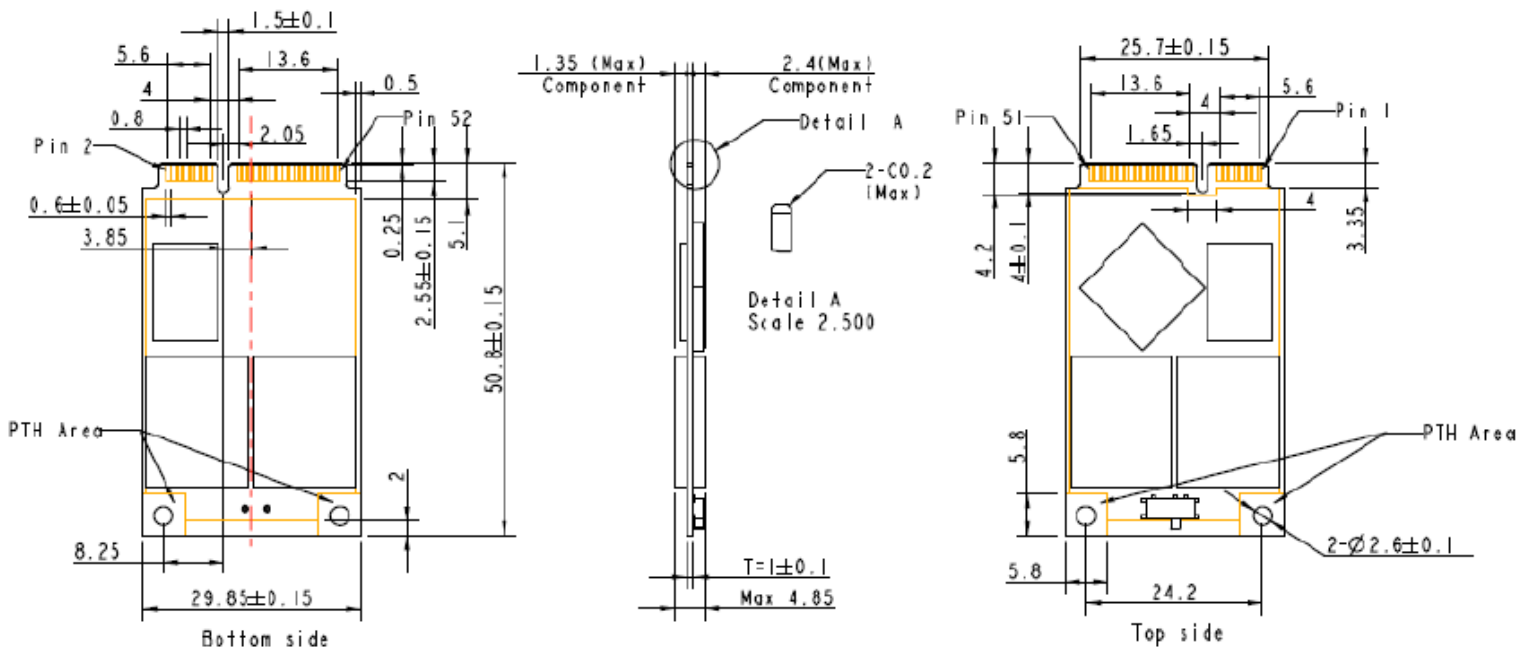
Feature

- Support Low-Density Parity-Check (LDPC) Code

- Global Wear Leveling Technology

- S.M.A.R.T. and SSDWidget support

- End-to-End Data Protection

- TRIM Support

- AES256 support

- DataRAID™

- DataDefender™

- Over-Provisioning

Specifications

Model	SV240-300
Interface	SATA 3.2 (6Gb/s)
Connector	52-pin mSATA connector
Form Factor	JEDEC MO-300
NAND Flash Type	3D TLC
Capacity	120GB ~ 960GB
External DRAM	Yes
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)	85K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Housing	No
H/W Write Protect	No
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	3.3 V ± 5%
Power Consumption	Active mode: 735 mA /Idle mode: 75 mA
Dimension (L x W x H)	50.80 x 29.85 x 4.85 mm
MTBF (hours)	>3,000,000

Mechanical Specification

Unit: mm

For more information,
contact your Apacer representative