

Apacer

The Most **Reliable**
Storage For Industries

ST250-25



SV250-25

Overview

Apacer's ST250-25 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 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.

ST250-25 utilizes 3D NAND for higher capacity up to 1TB and provides more power efficiency than 2D NAND. Regarding reliability, ST250-25 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability. 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 provides 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.



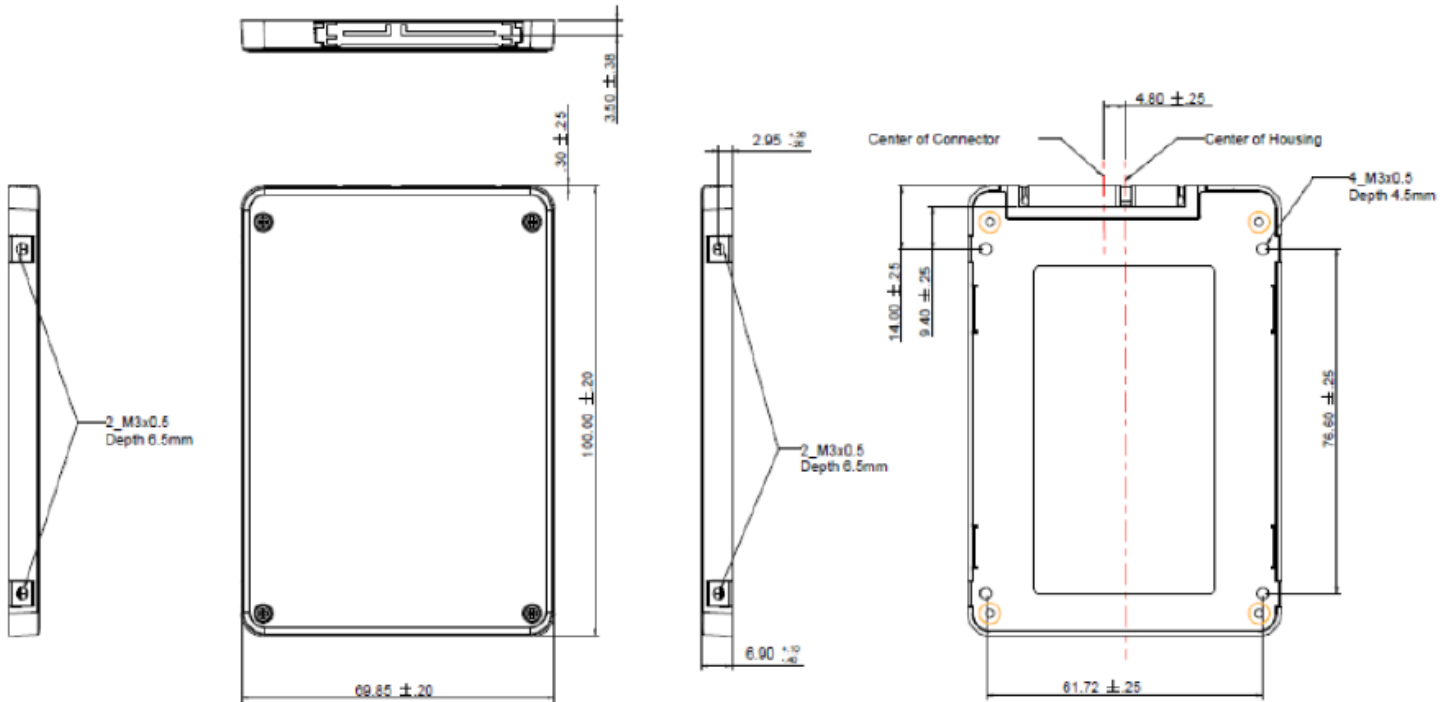
Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- DataDefender™
- ATA Secure Erase
- Device Sleep
- TRIM
- Hyper Cache Technology
- SMART Read Refresh™

Specifications

Model	ST250-25
Interface	SATA 3.0 (6Gb/s)
Connector	(7+15) pin male
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	64GB~1TB
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
Wide Temperature (°C)	-
Storage Temperature (°C)	-40 ~ + 100
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (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)/random (compliant with MIL-STD-810G)
Operating Voltage	5.0 V ± 10%
Power Consumption	Active mode: 340mA / Idle mode: 95 mA
Dimension (L x W x H)	7mm: 100.00 x 69.85 x 6.90mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information,
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