

Apacer

The Most **Reliable**
Storage For Industries

SH250-25



SH250-25

Overview

Apacer's SH250-25 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.

SH250-25 utilizes 3D NAND for higher capacity up to 320GB and provides more power efficiency than 2D NAND. With Apacer's SLC-liteX technology, SH250-25 performs with higher number of P/E cycles up to 30,000 times. Regarding reliability, SH250-25 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 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.

Feature

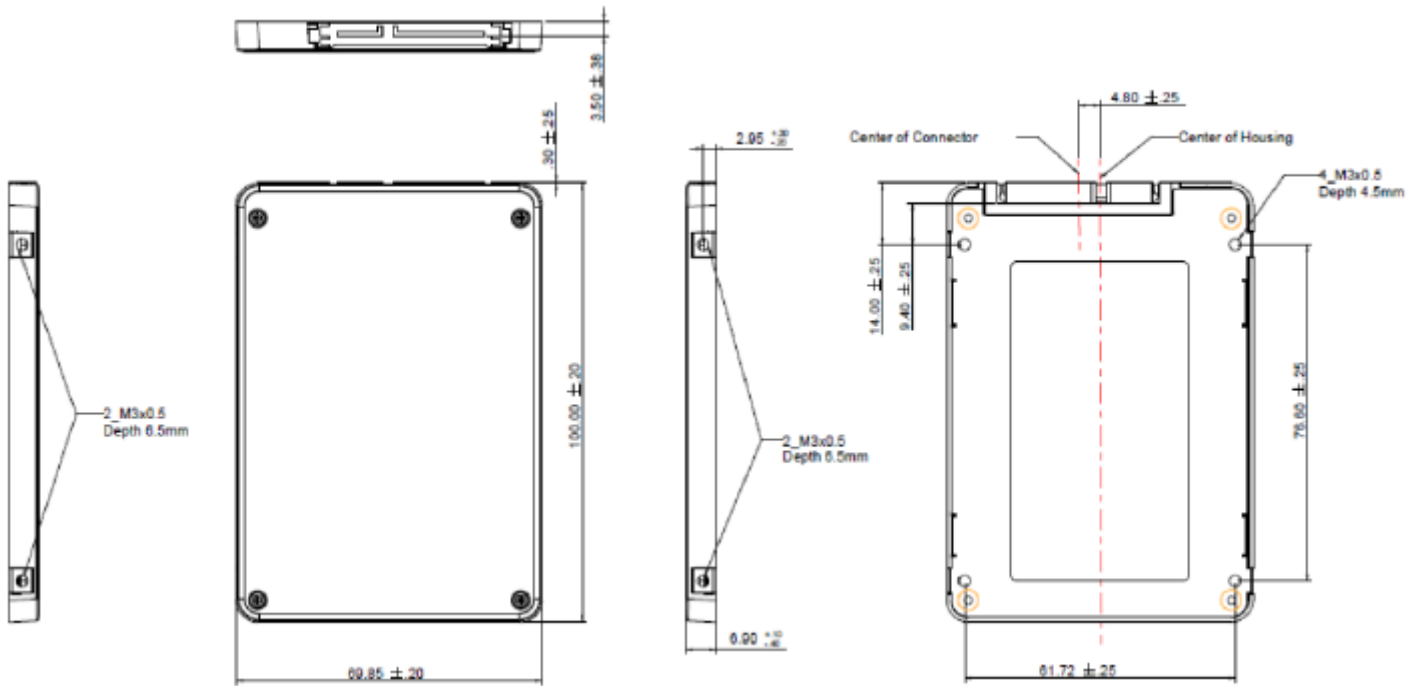
- Support LDPC ECC
- Global Wear Leveling technology
- S.M.A.R.T. and SSDWidget support
- End-to-End Data Protection
- TRIM Support
- AES256 support
- SLC-liteX
- Over-Provisioning
- DataDefender™
- Mechanical design available in 7mm height



Specifications

Model	SH250-25
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	10GB~320GB
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)	74K
Standard Operating Temperature (°C)	0 ~ + 70
Wide 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	5.0 V±5%
Power Consumption	Active mode: 320 mA / Idle mode: 85 mA
Dimension (L x W x H)	7mm:100.00 x 69.85 x 6.90mm
MTBF (hours)	>1,000,000

Mechanical Specification



Unit: mm

For more information,
contact your Apacer representative

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