

Apacer

The Most **Reliable**
Storage For Industries

SM230-25



SM230-25

Overview

Apacer's SM230-25 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.

In regard of reliability, 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 power failure management.

Last but not the least, with Advanced Encryption Standard (AES) and Trusted Computing Group (TCG) Opal support, SM230-25 ensures data security and provides users with a peace of mind knowing their data is safeguarded against unauthorized use at all times.



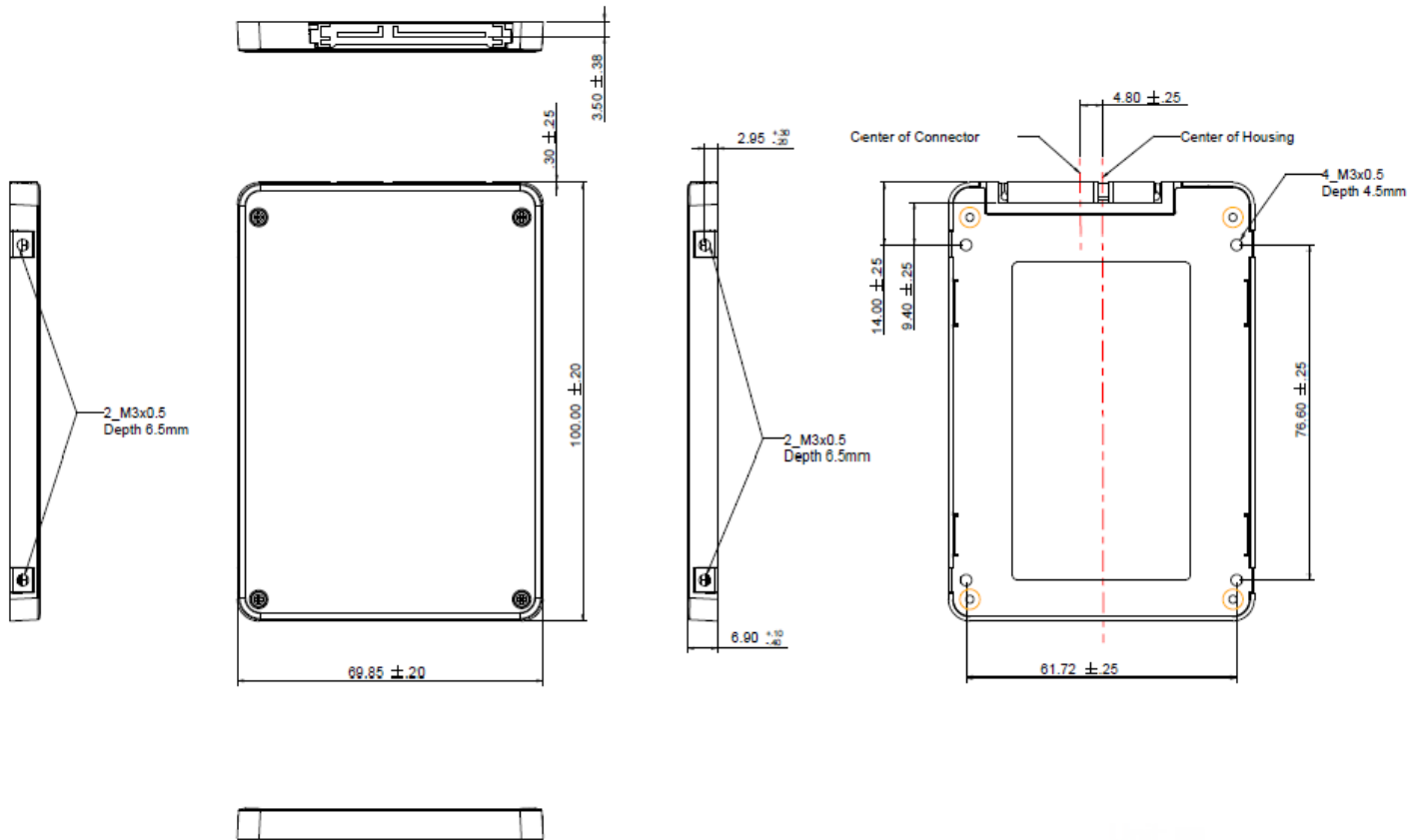
Feature

- Built-in hardware ECC
- Global Wear Leveling
- Flash bad-block management
- S.M.A.R.T.
- Power Failure Management
- Device Sleep
- ATA Secure Erase
- TRIM
- Support TCG Opal 2.0/AES 256-bit encryption

Specifications

Model	SM230-25
Interface	SATA 3.0 (6Gb/s)
Connector	(7+15) pin male
Form Factor	2.5"
NAND Flash Type	MLC
Capacity	32GB~1TB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 530
Sustained Write Performance (MB/sec)	Up to 520
ECC Engine	Built-in 40-bit per 1K bytes BCH ECC
IOPS (4K Random Write)	65K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
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±5%
Power Consumption	Active mode: 500 mA / Idle mode: 95 mA
Dimension (L x W x H)	7mm: 100.00 x 69.85 x 6.90mm 9.5mm: 100.00 x 69.85 x 9.3mm
MTBF (hours)	>1,200,000

Mechanical Specification



Unit: mm
Tolerance: ± 2

For more information,
contact your Apacer representative

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