Apacer

The Most **Reliable**
Storage For Industries

SV250-M280

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Overview

Apacer's SV250-M280 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-M280 utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND. Appearing in M.2 2280 mechanical dimensions, SV250-M280 is believed to be the leading add-in storage solution for future host computing systems. Regarding reliability, SV250-M280 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.
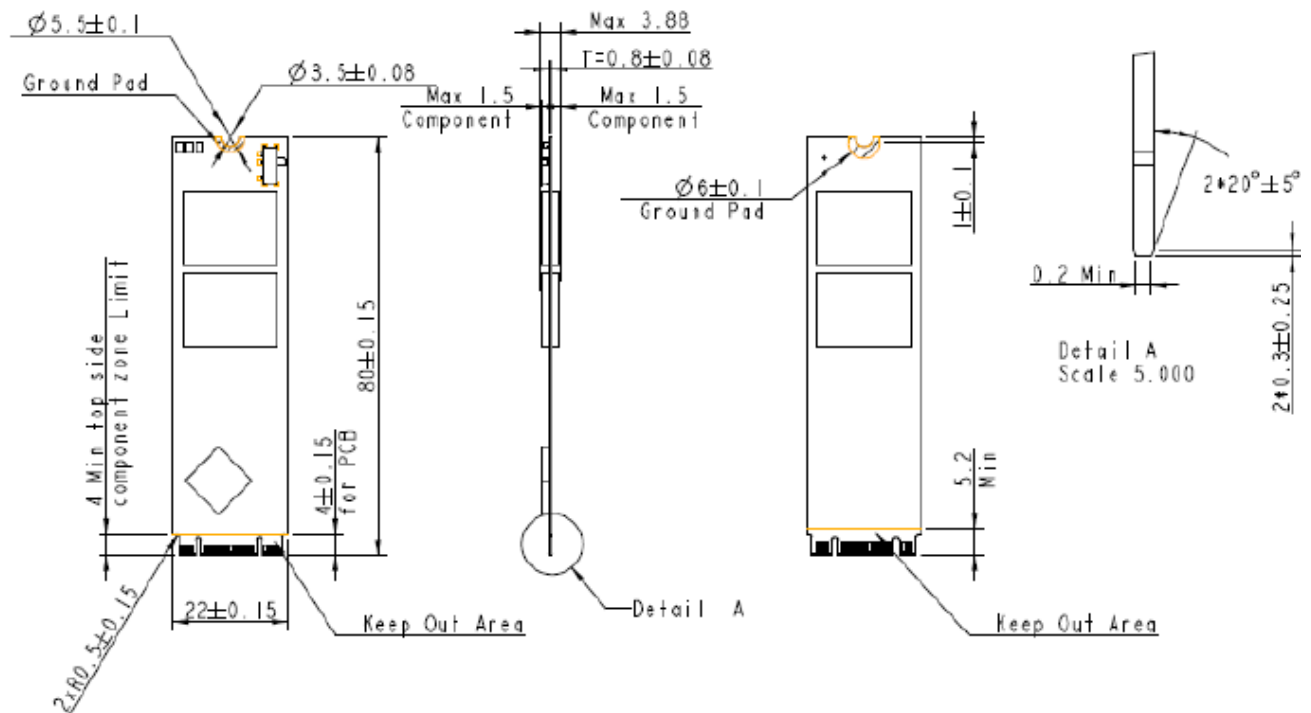
Feature

· Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability

· Global Wear Leveling

· S.M.A.R.T. and SSDWidget support

· End-to-End Data Protection

· TRIM Support

· Supports TCG Opal 2.0/AES 256-bit encryption

· Supports DataRAID™ and DataDefender™ technologies

Specifications

Model	SV250-M280
Interface	SATA 3.0 (6Gb/s)
Connector	M.2 B & M key
Form Factor	M.2 2280-D5-B-M
NAND Flash Type	3D TLC
Capacity	30GB~960GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 525
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	75K
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:455 mA / Idle mode: 80 mA
Dimension (L x W x H)	80.00 x 22.00 x 3.58 (mm)
MTBF (hours)	>1,000,000

Mechanical Specification

Unit: mm

For more information,
contact your Apacer representative

Global Presence