

# Apacer

The Most **Reliable**  
Storage For Industries

**SM21P-25**



## SM21P-25

### Overview

Featuring CorePower technology, Apacer's SM21P-25 is a well-balanced solid-state disk (SSD) drive with compact 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.

For data efficiency, the internal controlling unit of the SSD is engineered with DRAM for enhanced random performance. 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.



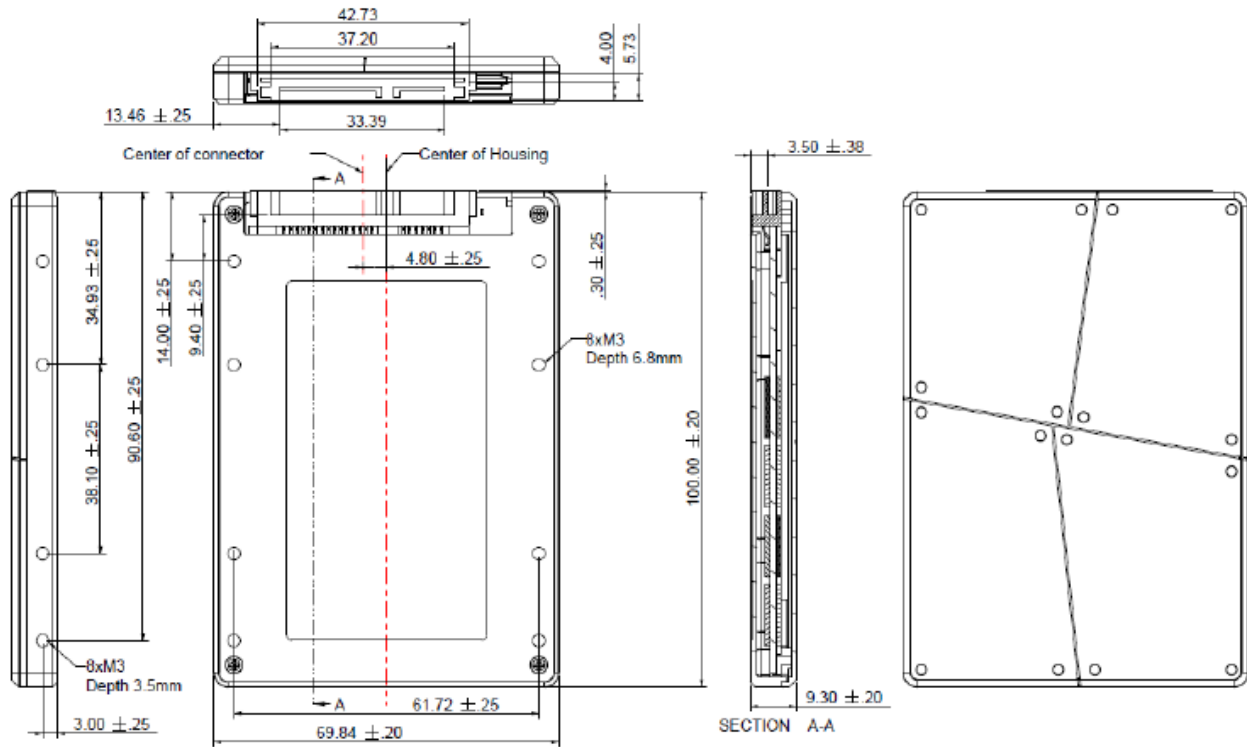
### Feature

- Built-in Hardware ECC
- Global Wear Leveling
- Flash Bad-block Management
- S.M.A.R.T.
- Power Failure Management
- ATA Secure Erase
- TRIM

## Specifications

<b>Model</b>	SM21P-25
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	(7+15) pin male
<b>Form Factor</b>	2.5"
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	32GB~512GB
<b>External DRAM</b>	Yes
<b>Sustained Read Performance (MB/sec)</b>	Up to 505
<b>Sustained Write Performance (MB/sec)</b>	Up to 470
<b>ECC Engine</b>	Built-in 40-bit per 1K bytes BCH ECC
<b>IOPS (4K Random Write)</b>	81K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 100
<b>Shock</b>	Operation: Acceleration, 50(G)/11(ms)/half sine Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (compliant with MIL-STD-883K)
<b>Vibration</b>	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)
<b>Operating Voltage</b>	5.0 V±5%
<b>Power Consumption</b>	Active mode: 1100 mA / Idle mode: 120 mA
<b>Dimension (L x W x H )</b>	9.5mm: 100.00 x 69.85 x 9.3mm
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

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