

# Apacer

The Most **Reliable**  
Storage For Industries

**SM130-25**



## SM130-25

### Overview

Apacer SM130-25 (2.5 inch) Embedded Solid State Drive is a speedy and reliable companion for industrial PC and laptops. Designed in SATA 6.0 Gb/s interface, the drive can deliver outstanding performance up to 530 MB/s sustained transfer rate, highly suitable to serve as operating system boot drive or storage media of important data. With its compliance with the latest SATA specification, this cutting edge device supports power management, which greatly saves in power consumption, making it more environmental and economical than traditional hard disk drives.

Regarding data reliability, the controller unit of SM130-25 is built with a powerful ECC engine in the device correcting up to 120bit per 2KB data. For better I/O performance, the controller unit comes with an external DDR3 cache to strengthen the IOPS (Input Output Per Second) of the device, proving to be the ideal companion for PC and laptop users.

### Feature

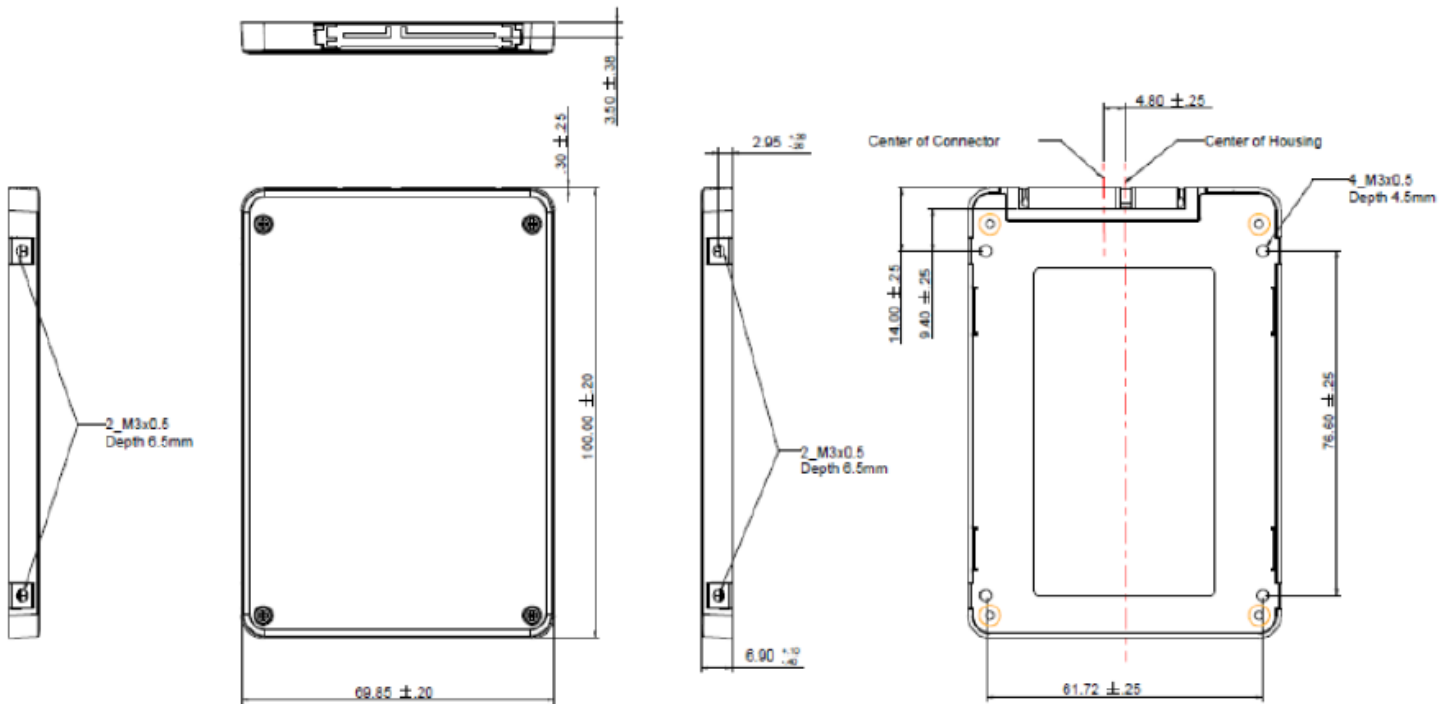
- Built-in hardware ECC
- Global Wear Leveling
- Flash bad-block management
- S.M.A.R.T.
- Power Failure Management
- Device Sleep
- TRIM



## Specifications

|  |  |
|--|--|
| <b>Model</b>                                 | SM130-25   |
| <b>Interface</b>                             | SATA 3.1 (6Gb/s)   |
| <b>Connector</b>                             | (7+15) pin   |
| <b>Form Factor</b>                           | 2.5"   |
| <b>NAND Flash Type</b>                       | MLC  |
| <b>Capacity</b>                              | 512GB~2TB  |
| <b>External DRAM</b>                         | Yes  |
| <b>Sustained Read Performance (MB/sec)</b>   | Up to 560  |
| <b>Sustained Write Performance (MB/sec)</b>  | Up to 535  |
| <b>ECC Engine</b>                            | 120bit ECC per 2KB page  |
| <b>IOPS (4K Random Write)</b>                | 85K  |
| <b>Standard Operating Temperature ( °C )</b> | 0 ~ + 70   |
| <b>Wide Temperature ( °C )</b>               | -40 ~ + 85   |
| <b>Storage Temperature ( °C )</b>            | -40 ~ + 100  |
| <b>Thermal sensor</b>                        | Yes  |
| <b>Shock</b>                                 | Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G)<br>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)<br>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: 1,160 mA Idle mode: 85 mA   |
| <b>Dimension (L x W x H)</b>                 | 100.00 x 69.85 x 6.90, unit: mm  |
| <b>MTBF (hours)</b>                          | >1,000,000 hours   |

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

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