

# Apacer

The Most **Reliable**  
Storage For Industries

**SDM5A-M 7P/90D LP(H)**



## SDM5A-M 7P/90D LP(H)

### Overview

Apacer's SDM5A-M (SATA Disk Module 5A - M) offers elevated speed boost and higher error correction capabilities. Built with SATA 6 Gb/s interface, SDM5A-M delivers exceptional performance in data transfer.

With its SATA interface compliance and compact size, this high-speed disk module defines an ideal balance of performance, capacities, reliability and cost. SDM5A-M comes in moderate capacities that are suitable to boot industrial applications and light operating systems for specific operations, while with some extra memory space for data storage. The architectural nature of SATA disk module provides higher resistance to external environmental influences and better flexibility for motherboard space.

Regarding data reliability, SDM5A-M is built in with powerful ECC engine that can correct up to 40-bit per 1KB data. In addition, the controller unit of this DOM device supports wear-leveling, SMART and power failure management for data integrity. With its trustable reliability, performance and cost effectiveness, Apacer's SDM5A-M is definitely the ideal storage or cache solution for embedded and industrial computers, servers and thin clients.



(Optional)

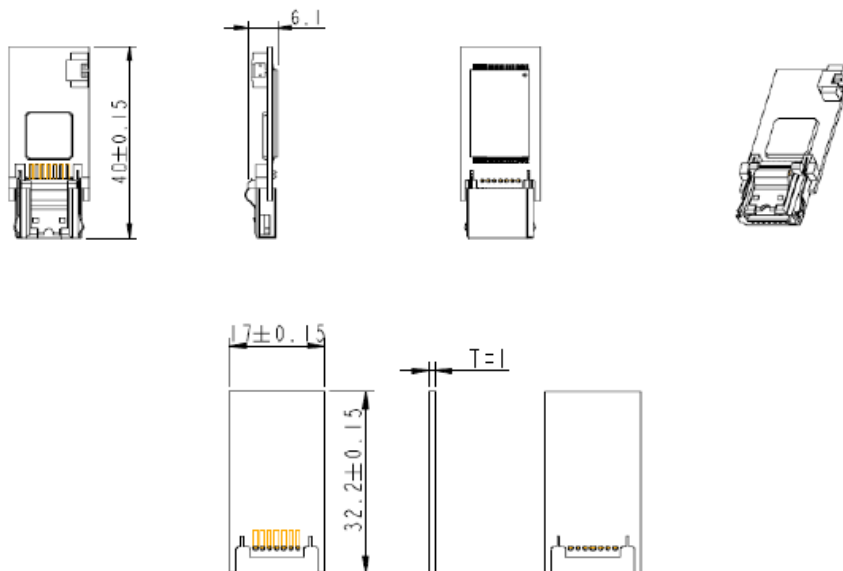
### Feature

- 7-pin SATA connector
- Unique Hook Design
- Power Cable-less Solution
- Perfect Solution for 1U System
- TRIM Command Support
- Product Housing Selection (Optional)
- Built-in ATA Secure Erase and S.M.A.R.T. Functions
- Global Wear-Leveling and Block Management

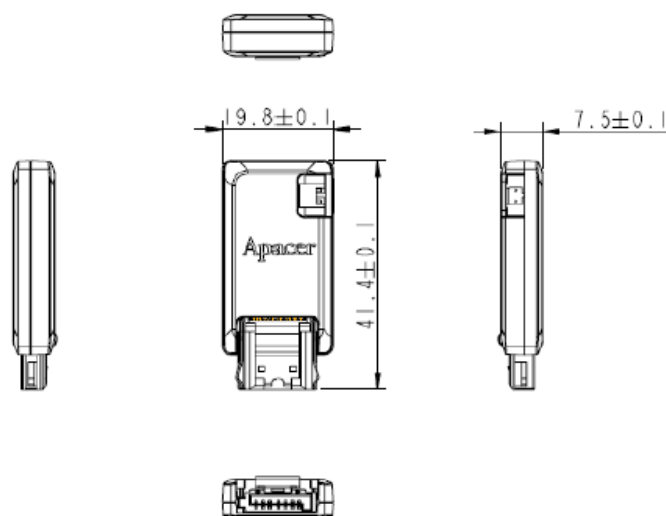
## Specifications

<b>Model</b>	SDM5A-M 7P/90D LP(H)
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	7-pin
<b>Form Factor</b>	SATA Disk Module
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	4GB~32GB
<b>External DRAM</b>	No
<b>Sustained Read Performance (MB/sec)</b>	Up to 120
<b>Sustained Write Performance (MB/sec)</b>	Up to 40
<b>ECC Engine</b>	Built-in 40-bit per 1K bytes BCH ECC
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 100
<b>Housing</b>	Optional
<b>H/W Write Protect</b>	No
<b>Screw Hole</b>	No
<b>Cable-less Solution</b>	Optional (7+2 pin)
<b>Shock</b>	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
<b>Vibration</b>	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)
<b>Operating Voltage</b>	5.0 V±5%
<b>Power Consumption</b>	Active mode: 160 mA / Idle mode: 65 Ma
<b>Dimension (L x W x H )</b>	Without housing:30.0 x 20 x 15.2mm With housing:32.5 x 23.13 x 17.8 mm
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification



## (Optional)



Unit: mm

**For more information,  
contact your Apacer representative**

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