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The Most **Reliable**
Storage For Industries
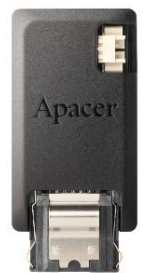
SDM5A 7P/180D Slim2(H)

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Overview

Apacer's SDM5A (SATA Disk Module 5A) is our next generation disk-on-module (DOM) series that offers elevated speed boost and higher error correction capabilities. Built with SATA 6.0 Gb/s interface, SDM5A delivers higher performance in data transfer than its previous SDM selections, reaching up to 34 MB/s in read and 55 MB/s in write. With its SATA interface compliance and compact size, this high-speed disk module defines an ideal balance of performance, capacities, reliability and cost. SDM5A 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 is built in with powerful ECC engine that can correct up to 40 bits 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 is definitely the ideal storage or cache solution for embedded and industrial computers, servers and thin clients.
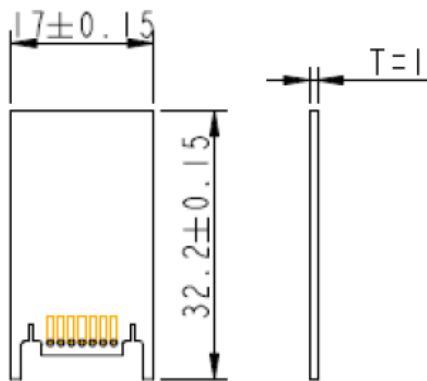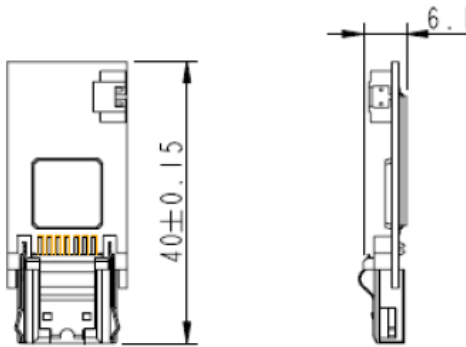

(Optional)

Feature

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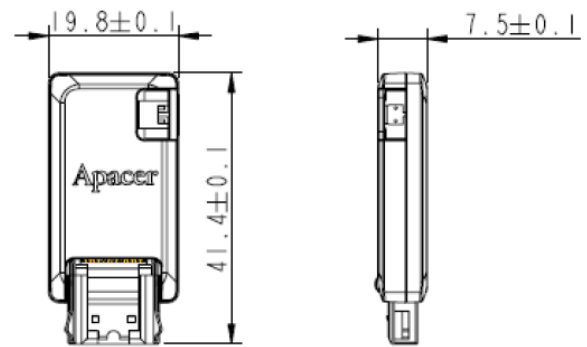- Global Wear-Leveling and Block Management

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Specifications

Model	SDM5A 7P/180D Slim2(H)
Interface	SATA 3.0 (6Gb/s)
Connector	7-pin
Form Factor	SATA Disk Module
NAND Flash Type	SLC
Capacity	1GB~16GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 34
Sustained Write Performance (MB/sec)	Up to 55
ECC Engine	Built-in 40-bit per 1K bytes BCH ECC
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Housing	Optional
H/W Write Protect	No
Screw Hole	No
Cable-less Solution	Optional (7+2 pin)
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
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	5.0 V±5%
Power Consumption	Active mode: 165 mA & Idle mode: 65 mA
Dimension (L x W x H)	Without housing: 17 x 40 x 6.1 mm With housing: 19.8 x 41.4 x 7.5 mm
MTBF (hours)	>2,000,000

Mechanical Specification (Housing is optional)

(Optional)

Unit: mm

For more information, contact your Apacer representative