

Apacer

The Most **Reliable**
Storage For Industries



SDM5A-M 7P/180D LP(H)



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Overview

Apacer's SDM5A-M (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-M delivers higher performance in data transfer than its previous SDM selections, reaching up to 435 MB/s in read and 80 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-M 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-M is definitely the ideal storage or cache solution for embedded and industrial computers, servers and thin clients.



(Optional)

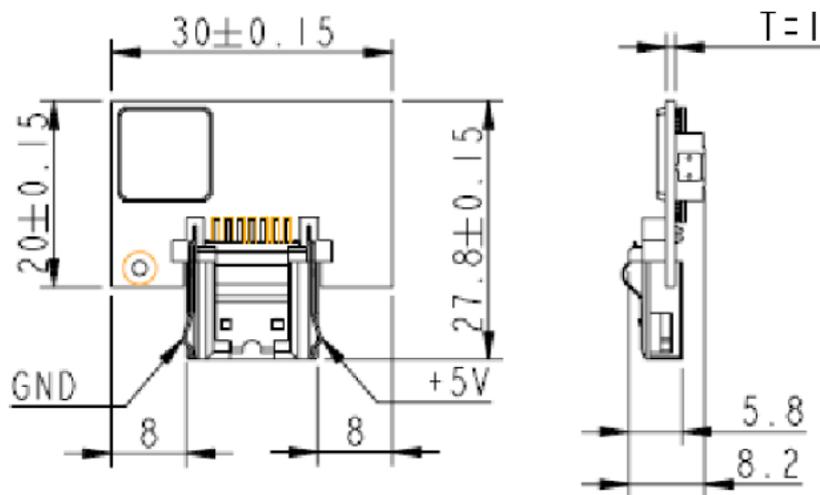
Feature

- 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

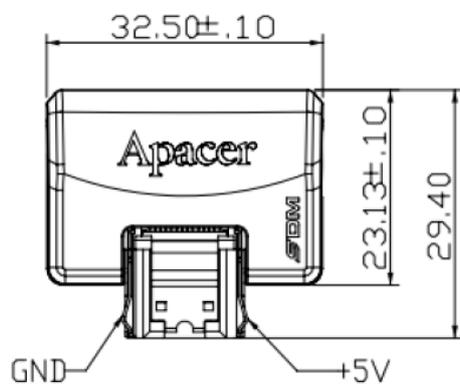
Model	SDM5A-M 7P/180D LP(H)
Interface	SATA 3.0 (6Gb/s)
Connector	7-pin
Form Factor	SATA Disk Module
NAND Flash Type	MLC
Capacity	Standard Type: 4GB~32GB High-speed Type: 32GB~64GB (in cable-less type only)
External DRAM	No
Sustained Read Performance (MB/sec)	Standard Type: Up to 120 High-speed Type: Up to 425
Sustained Write Performance (MB/sec)	Standard Type: Up to 40 High-speed Type: Up to 80
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	Standard Type: Active mode: 160 mA & Idle mode: 80 mA High-speed Type: Active mode: 225mA & Idle mode: 70 mA
Dimension (L x W x H)	Without housing: Standard type: 30.0 x 27.8 x 8.2 mm High-speed type: 30.0 x 27.8 x 7.4 mm With housing: 32.5 x 29.4 x 8.53 mm
MTBF (hours)	>1,000,000

Mechanical Specification (Housing is optional)



Unit: mm

(Optional)



For more information, contact your Apacer representative

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