



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Apacer

The Most **Reliable**  
Storage For Industries



**SDM5A 22P90D**



## SDM5A 22P90D

### Overview

The SDM5A-M SATA DOM (SATA disk of module) series is available with a 22-pin connector that is oriented at 90 degrees or 180 degrees and is designed for a adopted in industrial, embedded, and commercial computers. Supporting SATA 6.0 Gb/s and read and write speeds up to 200 MB/s and 85MB/s respectively, the SDM5A-M DOM offers outstanding reliability based on flash vendor guaranteed wide-temp MLC chip in capacities of 8GB to 64GB and also can work at extended temperatures (-40°C~ 85°C) under harsh operating environment, particularly well-suited for applications such as POS, kiosk, gaming, digital signage, STB, low-cost NB surveillance systems and Thin client. The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance.



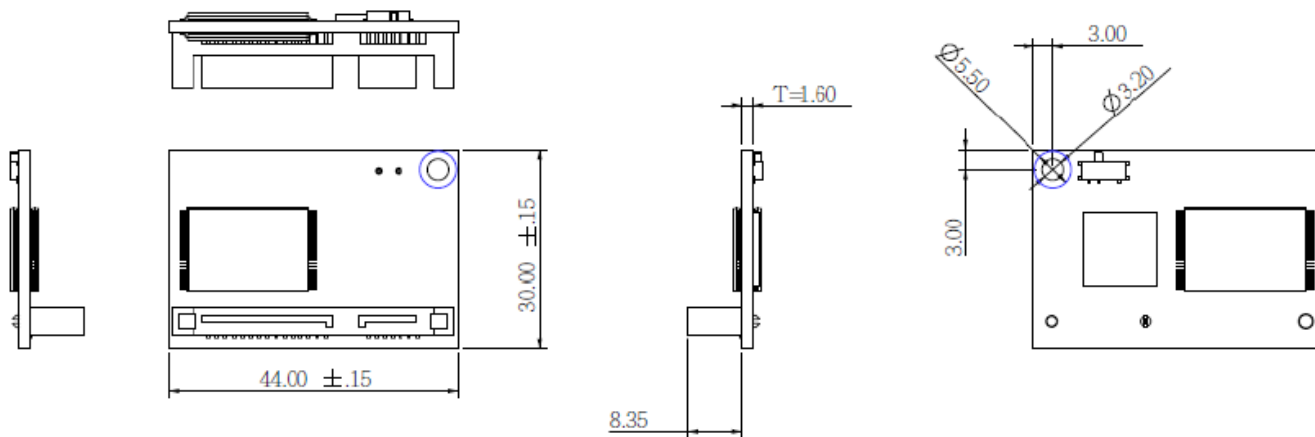
### Feature

- 22-pin SATA Standard Connector
- Global Wear-leveling and Block Management
- Built in ATA Secure Erase and S.M.A.R.T. Function
- Intelligent Power Failure Recovery
- TRIM Command Support
- MLC Extended Temperature Support

## Specifications

<b>Model</b>	SDM5A 22P90D
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	(7+15) pin male
<b>NAND Flash Type</b>	SLC
<b>Capacity</b>	1GB~32GB
<b>External DRAM</b>	No
<b>Sustained Read Performance (MB/sec)</b>	Up to 65
<b>Sustained Write Performance (MB/sec)</b>	Up to 105
<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>Thermal Sensor</b>	Optional
<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: 260 mA & Idle mode: 70 mA
<b>Dimension (L x W x H )</b>	44 x 30 x 11 (mm)
<b>MTBF (hours)</b>	>2,000,000

## Mechanical Specification



Unit: mm

## Ordering Info

Operation Temp.	8GB	16GB	32GB	64GB
Standard Grade	APSDM008G12AN-CTM1	APSDM016G12AN-CTM1	APSDM032G12AN-CTM1	APSDM064G12AN-CTM1
Industrial Grade	APSDM008G12AN-CTM1W	APSDM016G12AN-CTM1W	APSDM032G12AN-CTM1W	APSDM064G12AN-CTM1W

## Global Presence

Taiwan (Headquarters)  
Apacer Technology Inc.  
Tel: +886-2-2267-8000  
Fax: +886-2-2267-2261

Europe  
Apacer Technology B.V.  
Tel: +31-40-267-0000  
Fax: +31-40-290-0686

U.S.A.  
Apacer Memory America, Inc.  
Tel: +1-408-518-8699  
Fax: 1-510-249-9551

China  
Apacer Electronic(Shanghai)  
Co., Ltd.  
Tel: +86-21-6228-9939

Japan  
Apacer Technology Corp.  
Tel: +81-3-5419-2668  
Fax: +81-3-5419-0018

India  
Apacer Technologies Pvt. Ltd.  
Tel: +91-80-41529061~3  
Fax: +91-80-41700215