

# Apacer

The Most **Reliable**  
Storage For Industries

**SDM7-M 7P/180D LP2(H)**



## SDM7-M 7P/180D LP2(H)

### Overview

Apacer SDM7-M 7P/180D LP2 (H) (SATA Disk Module 7 7Pin/180 Degree Low Profile 2 (Housing)) is a super-mini industrial SSD module. Designed in SATA 6.0 Gb/s interface, SDM7-M can deliver outstanding performance up to 120 MB/s in reading and 25 MB/s in writing, highly suitable to serve as operating system boot drive or storage media of important data. For data efficiency, the internal controlling unit of the product is engineered with a DRAM as a write cache for enhanced random performance and endurance. Besides, SDM7-M features Apacer Multi-PowerPath technology that provides three methods to supply power to the host either via a conventional cable or cable-less design via pin7 or state-of-art 7+2 pin connector, which in turn offers developers maximum flexibility when it comes to board design. Moreover, the device adopts the latest page mapping file translation layer, thermal throttling and write protect function, making it a powerful yet compact solution for space-limited design. Last but not least, SDM7-M can be delivered with Apacer CoreAnalyzer analysis software on request making it possible to quantify the actual workload on application which is critical in evaluating life cycle of host applications.



(Optional)

\*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

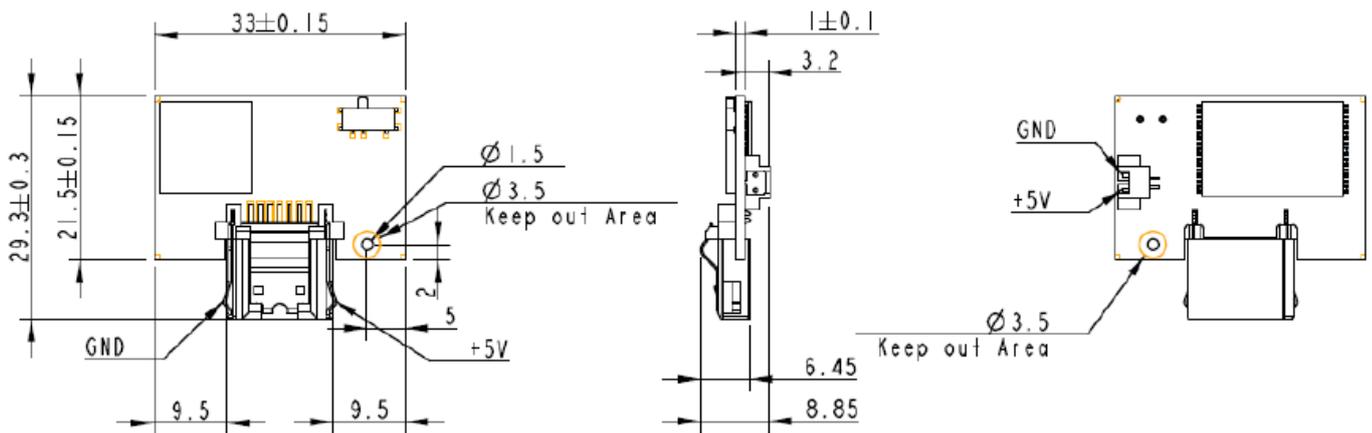
- 7-pin SATA connector
- Multi-PowerPath Technology
- DRAM Cache for Enhanced Random Performance
- Product Housing Selection (Optional)
- Built-in ATA Secure Erase and S.M.A.R.T. Functions
- Global Wear-Leveling and Block Management
- Thermal Throttling Technology (optional)
- CoreAnalyzer analysis software optimizes system operation

## Specifications

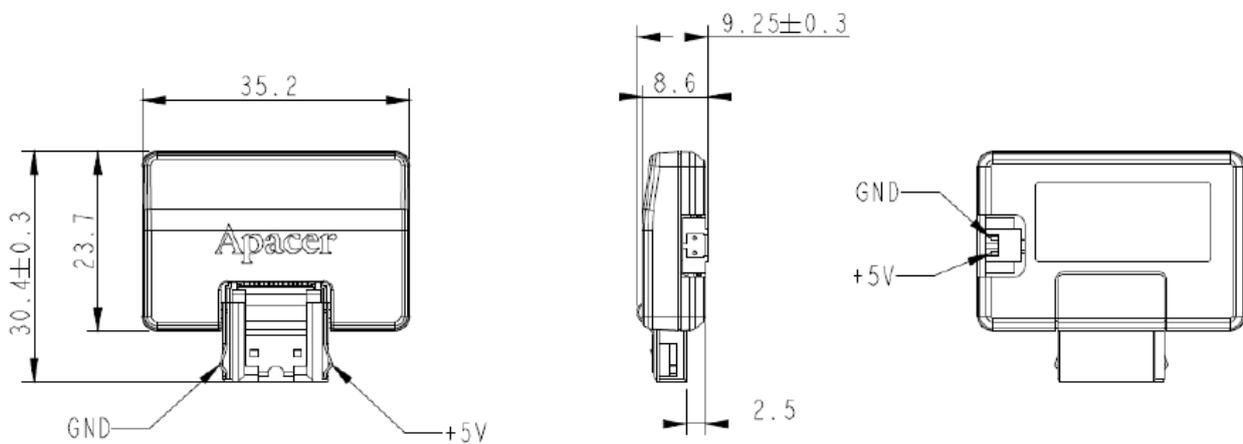
<b>Model</b>	SDM7-M 7P/180D LP2(H)
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	7-pin
<b>Form Factor</b>	SATA Disk Module
<b>Transfer Mode</b>	–
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	8GB~64GB
<b>Sustained Read Performance (MB/sec)</b>	–
<b>Sustained Write Performance (MB/sec)</b>	–
<b>ECC Engine</b>	Built-in 72-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>H/W Write Protect</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: 15 G, 10 ~ 2000 Hz/sine
<b>Operating Voltage</b>	5.0 V ± 5%
<b>Power Consumption</b>	–
<b>Dimension (L x W x H )</b>	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
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification

### Without Housing



### With Housing



Unit: mm

For more information,  
contact your Apacer representative

### 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