

# Apacer

The Most **Reliable**  
Storage For Industries

**SU210-M280**



## SU210-M280

### Overview

Apacer's SU210-M280 is the next generation modularized Solid State Drive (SSD) with the shape of all new M.2 form factor, aimed to be the more suitable for mobile and compact computers with standard width at only 22.00 mm. SU210-M280 appears in M.2 2280 mechanical dimensions and is believed to be the leading add-in storage solution for future host computing systems.

The M.2 SSD is designed with SATA-based connector pinouts, providing full compliance with the latest SATA Revision 3.2 interface specifications. Aside from SATA compliance, SU210-M280 delivers exceptional performance and power efficiency. On the other hand, the extreme thin and light form factor makes SU210-M280 the ideal choice for mobile computing systems, which appears to be the trend in near future.

Regarding reliability, SU210-M280 is built with a powerful SATA controller that supports on-the-module ECC as well as efficient wear leveling scheme. In terms of power efficiency, SU210-M280 is compliant with SATA 6.0 Gbps interface standard so that it can operate on SATA power management modes, which greatly save on power consumption.

### Feature

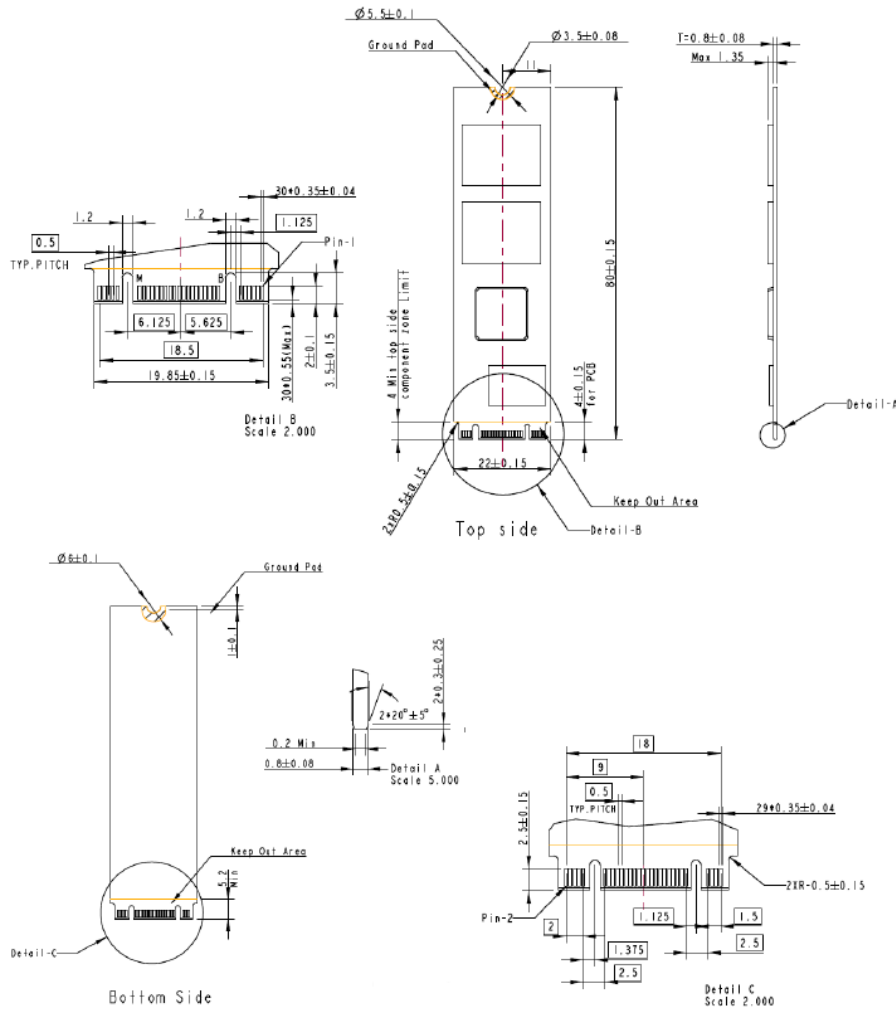
- SATA 3 (6Gb/s) interface
- M.2 (NGFF) connector
- Advanced 4K Page Mapping Technology
- SLC-lite Technology
- Built-in ATA secure erase and S.M.A.R.T. functions
- DRAM Cache for Enhanced Random Performance



## Specifications

<b>Model</b>	SU210-M280
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	M.2 B & M key
<b>Form Factor</b>	M.2 2280-D3-B-M & M.2 2280-S3-B-M
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	32GB~256GB
<b>External DRAM</b>	Yes
<b>Sustained Read Performance (MB/sec)</b>	Up to 530
<b>Sustained Write Performance (MB/sec)</b>	Up to 220
<b>ECC Engine</b>	Built-in up to 72-bit per 1K bytes BCH ECC
<b>IOPS (4K Random Write)</b>	40K
<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>	Yes
<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: 15G, 10 ~ 2000 Hz/sine
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Power Consumption</b>	Active mode: 695mA & Idle mode: 135 mA
<b>Dimension (L x W x H )</b>	Single side: 80.00 x 22.00 x 1.5 (mm) Double side: 80.00 x 22.00 x 3.6 (mm)
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

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