

Apacer

The Most **Reliable**
Storage For Industries



M.2 2242 P100-M



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Overview

Apacer P100-M is the next generation modularized Solid State Drive (SSD) with the shape of M.2 form factor, with the aim to be the more suitable for mobile and compact computers with standard width at only 22.00 mm. P100-M appears in M.2 2242 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, P100-M delivers exceptional performance and power efficiency. On the other hand, the extreme thin and light form factor makes P100-M the ideal choice for mobile computing systems, which appears to be the trend in near future. Regarding reliability, P100-M is built with a powerful SATA controller that supports on-the-module ECC as well as efficient wear leveling scheme. Since it is operating under SATA 6.0 Gbps interface, P100-M is provided with Apacer latest S.M.A.R.T. that are primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analyzing.



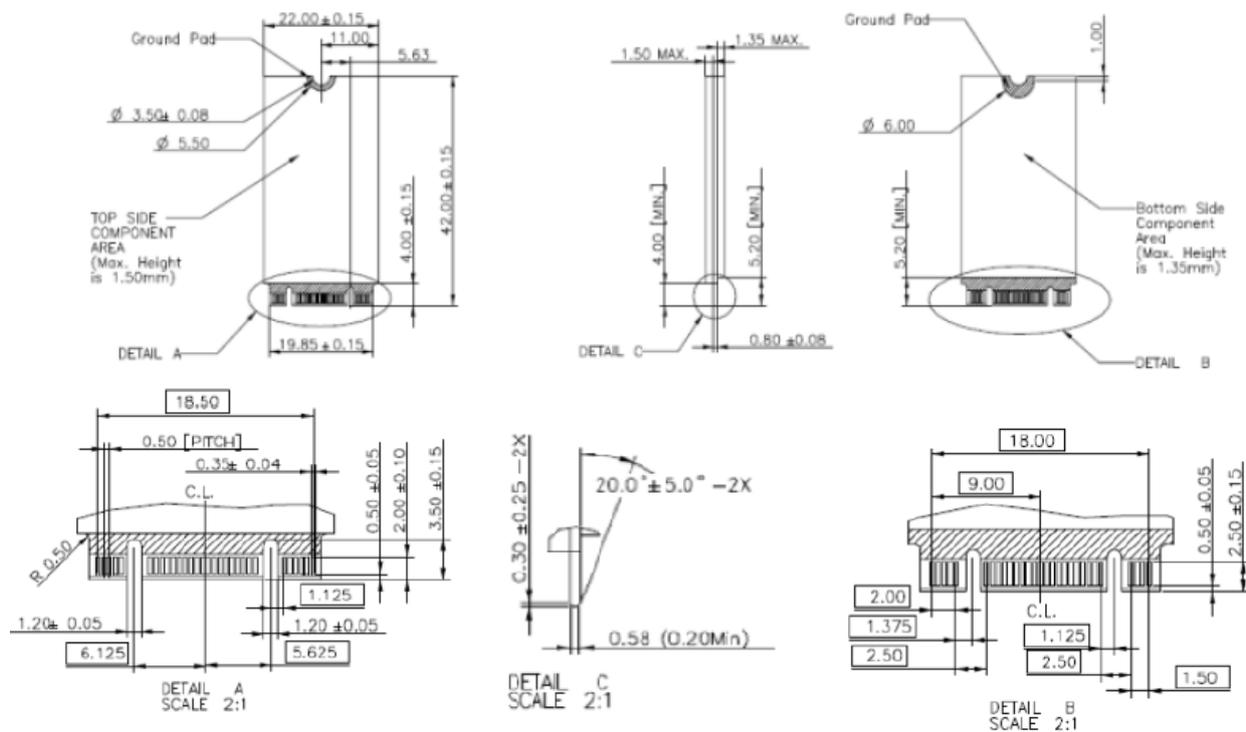
Feature

- SATA 3 (6Gb/s) interface
- M.2 (NGFF) Connector
- Global wear-leveling and block management
- Built-in ATA security and S.M.A.R.T. functions
- TRIM command support

Specifications

Model	M.2 2242 P100-M
Interface	SATA 3.0 (6Gb/s)
Connector	M.2 B & M key
Form Factor	2242
NAND Flash Type	MLC
Capacity	8GB~256GB
External DRAM	no
Sustained Read Performance (MB/sec)	Up to 450
Sustained Write Performance (MB/sec)	Up to 165
ECC Engine	Built-in up to 72-bit per 1K bytes BCH ECC
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Optional
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5m
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15G, 10 ~ 2000 Hz/sine
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 455 mA & Idle mode: 95 mA
Dimension (L x W x H)	42x22x3.8 (mm)

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

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