

Integral M.2 SATA III 22x80

2017 Model



120
GB

240
GB

480
GB

960
GB

The Integral M.2 next generation form factor SATA III SSD delivers all of the advantages of flash memory technology for SATA based computers.

M.2 SATA SSD storage solutions are designed for Notebooks, Desktops, Ultrabooks and tablets. They address the need for more low powered compact storage without compromising performance and reliability of solid state drives.

- Shock resistance - No moving parts enable the product to be used in tougher conditions
- Silent operation - Noiseless and low heat dissipation
- Supports S.M.A.R.T. - Self-Monitoring, Analysis and Reporting Technology
- Supports TRIM
- RoHS compliant
- CE and FCC tested
- Warranty – 3 Years

FEATURES

- M.2 2280 form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
- Supports 'M' & 'B' Key sockets
- Performance: Faster boot than HDD, Faster access to applications, enhanced productivity and increased efficiency
- Fully compatible with devices and OS that support the SATA standard with M.2 M and B socket
- Non-volatile Flash Memory for outstanding data retention - Less likely to fail than HDD
- Ultra-efficient Block Management and Static and Dynamic Wear Leveling
- Lower Power Consumption

CAPACITIES & INTERFACE

Capacities available	120GB, 240GB, 480GB, 960GB
Form Factor	M.2 22x80
NAND	TLC
Controller	Phison S11
Interface	SATA III 6Gbps Also compatible with SATA II 3Gbps Also compatible with SATA 1.5Gbps
Sequential Speed (up to)*	120GB = READ 560MB/s, WRITE 540MB/s 240GB = READ 560MB/s, WRITE 540MB/s 480GB = READ 560MB/s, WRITE 540MB/s 960GB = READ 560MB/s, WRITE 540MB/s
Random 4K	120GB = READ 86K IOPS, WRITE 80K IOPS 240GB = READ 86K IOPS, WRITE 80K IOPS 480GB = READ 81K IOPS, WRITE 83K IOPS 960GB = READ 80K IOPS, WRITE 75K IOPS

DIMENSIONS

Length	80mm
Width	22mm
Height	3.8mm
Weight	6g
E-tail Packaged Weight	15g
E-tail Packaged Dimensions (mm)	L = 120, W = 64, D = 8

POWER CONSUMPTION

Power Management	3.3V
Power Consumption (mW)***	120GB - Read 1,245, Write 1,375, Idle 265 240GB - Read 1,425, Write 1,850, Idle 270 480GB - Read 1,435, Write 1,600, Idle 280 960GB - Read 1,575, Write 1,620, Idle 325

ENVIRONMENTAL

Operating Temp	0° to +70°C
Non - Operating Temp	-40° to +85°C
Humidity****	RH 90% under 40°C (operational)

FEATURES

Supports SMART Software	Yes
Supports TRIM	Yes (OS support required)
ECC scheme	LDPC
MTBF	>2 Million Hours
Compliance	CE, FCC, RoHS

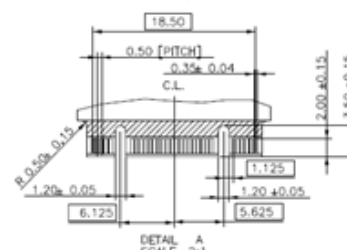
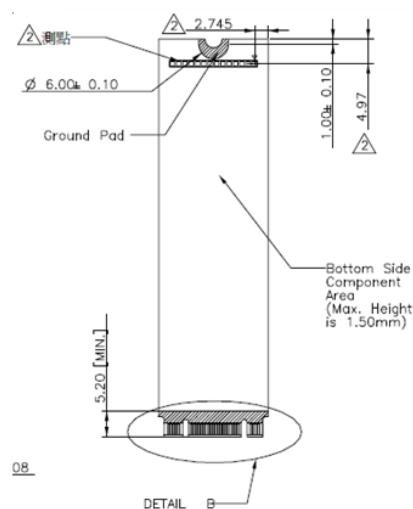
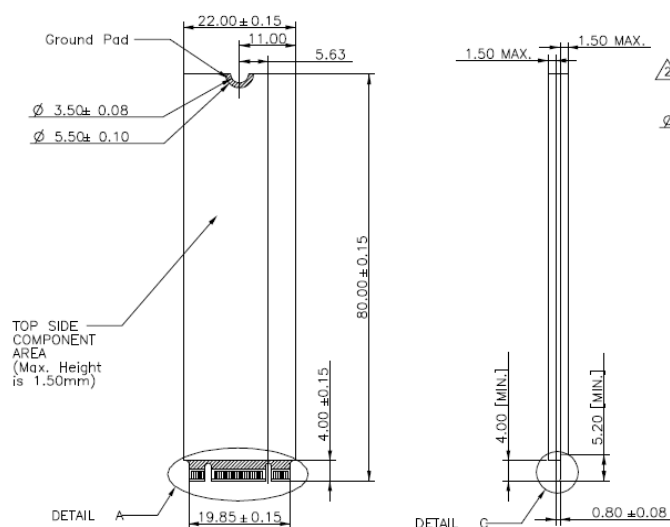
WARRANTY

3 years	
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E-tail packaging order codes

CAPACITY	PART CODE	BARCODE (EAN)
120GB	INSSD120GM280	5055288435896
240GB	INSSD240GM280	5055288435902
480GB	INSSD480GM280	5055288435919
960GB	INSSD960GM280	5055288439795

- Performance based on "out of the box" internal testing measured under ambient temperature. Sequential R/W is measured using ATTO. Random 4K is measured using iometer.
 - Power Consumption may differ according to flash configuration and platform.
- E&OE. Product design and specification subject to change or modification without notice.



Notes :

1. [Hatched Area] = Max Component Height is
2. [White Area] = No Component
3. [Dotted Area] = No Component / Signal Vias / Signal Copper/Print
4. General Tolerance : ±0.15mm