

Integral M.2 SATA III 22x42

2017 Model



120
GB

240
GB

480
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.

FEATURES

- M.2 2242 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 connectors
- 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
- 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

CAPACITIES & INTERFACE	
Capacities available	120GB, 240GB, 480GB
Form Factor	M.2 22x42
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
Random 4K	120GB = READ 86K IOPS, WRITE 80K IOPS 240GB = READ 86K IOPS, WRITE 80K IOPS 480GB = READ 75K IOPS, WRITE 68K IOPS
DIMENSIONS	
Length	42mm
Width	22mm
Height	3.8mm
Weight	4g
E-tail Packaged Weight	12g
E-tail Packaged Dimensions (mm)	L = 120, W = 64, D = 8
POWER CONSUMPTION	
Power Management	3.3V
Power Consumption (mW)***	120GB - Read 1130, Write 1305, Idle 260 240GB - Read 1360, Write 1780 Idle 270 480GB - Read 1470, Write 1520 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	

E-tail packaging order codes

CAPACITY	PART CODE	BARCODE (EAN)
120GB	INSSD120GM242	5055288436251
240GB	INSSD240GM242	5055288436268
480GB	INSSD480GM242	5055288440074

- Performance based on "out of the box" internal testing measured under ambient temperature. Sequential RW is measured using ATO. 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.

