

Integral M.2 SATA III 22x80



128
GB

256
GB

512
GB

1
TB

The Integral M.2 next generation form factor SATA 6Gbps MLC 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
- 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

PERFORMANCE Sequential Speed (up to)		
128GB	Read	530MB/s (up to)*
	Write	430MB/s (up to)*
256GB	Read	530MB/s (up to)*
	Write	430MB/s (up to)*
512GB	Read	560MB/s (up to)*
	Write	530MB/s (up to)*
1TB	Read	360MB/s (up to)*
	Write	300MB/s (up to)*
INTERFACE		
Interface		SATA III 6Gbps Also Compatible with SATA II 3Gbps and SATA 1.5Gbps
NAND		MLC
Form Factor		M.2 22x80 'M' & 'B' Key connector
Standard		M.2 (previously known as Next Generation Form Factor (NGFF))
POWER CONSUMPTION		
Supply Voltage		3.3V
Power Consumption (mW)		Read: 128GB = 1760 / 256GB = 1960 / 512GB = 2023 / 1TB = 1980
		Write: 128GB = 1410 / 256GB = 1730 / 512GB = 3357 / 1TB = 3430
		Idle: 128GB, 256GB, 512GB = 285 / 1TB = 960
MTBF		>1.5 Million Hours
ENVIRONMENTAL		
Operating Temp		0° to +70°C
Non - Operating Temp		-40° to +85°C
Supports SMART Software		Yes
Compliance		CE, FCC, RoHS
DIMENSIONS		
Length		80mm
Width		22mm
Height		3.8mm
Weight		6g
Length (Packed)		120mm
Width (Packed)		64mm
Depth (Packed)		8mm
Weight (Packed)		15g
WARRANTY		
3 years		

*Based on internal testing

CAPACITY	PART CODE	BARCODE (EAN)
128GB	INSSD128GM.26M2280	5055288427402
256GB	INSSD256GM.26M2280	5055288427587
512GB	INSSD512GM.26M2280	5055288429369
1TB	INSSD1TM280	5055288434516

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

2. Power Consumption may differ according to flash configuration and platform.

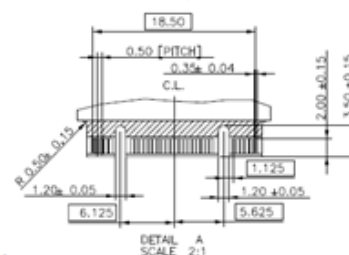
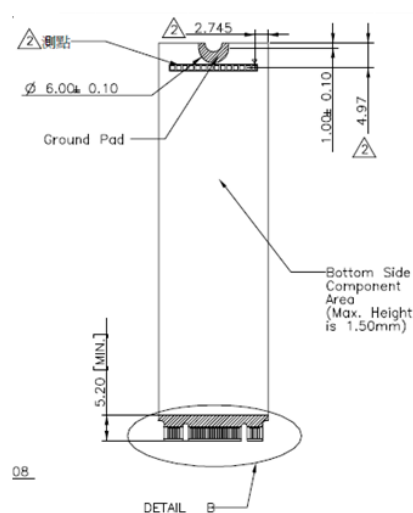
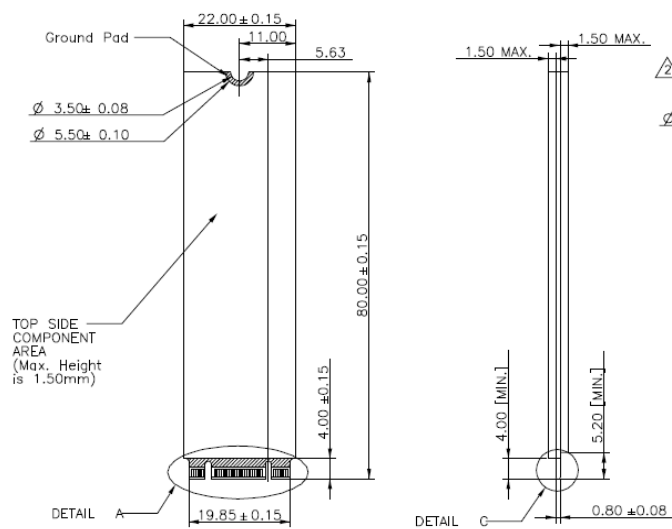
1GB = 1,000,000,000 bytes. Formatted capacity is less.

This device should not be used as your sole backup.

Product design and specification subject to change or modification without notice. E&OE.

All trademarks acknowledged.

For warranty information please visit www.integralmemory.com/warranty



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 : $\pm 0.15\text{mm}$