ADATA Premier SP580 SSD

If you want to give your notebook PC an SSD upgrade instead of going for a slower and less reliable mechanical HDD, ADATA now offers a truly affordable solution. The Premier SP580 utilizes a high-speed Marvell controller and supports intelligent SLC (single-level cell) caching to effectively enhance read/write performance. Featuring advanced LDPC ECC Engine (low density parity check error correcting code), the Premier SP580 ensures data integrity and improves data transfer quality. It supports high TBW (total bytes written) and DEVSLP (Device Sleep), helping you upgrade your notebook effortlessly with superior durability and power efficiency.

Features

● Marvell controller

● Advanced H/W LDPC ECC Technology

● Intelligent SLC Caching for improved performance

● DEVSLP (Device Sleep) supported

● High TBW for extended drive longevity

● Value-added software ADATA SSD Toolbox

● Supports S.M.A.R.T., TRIM Command, and NCQ

Ordering Information

Capacity	Model Number	EAN Code
120GB	ASP580SS3-120GM-C	4712366966253
240GB	ASP580SS3-240GM-C	4712366966260

Specifications

● Capacities: 120GB / 240GB

● Controller: Marvell

● NAND Flash Memory: TLC

● Interface: SATA 6Gb/sec (SATA III)

● Form Factor: 2.5"

● MTBF: 1,500,000 hours

● Dimensions (L x W x T): 100.45 x 69.85 x 7mm

● Weight: 47.5g

● Operating Temperature: 0°C ~70°C,

● Storage Temperature: -40°C ~85°C

● Shock Resistance: 1500G/0.5ms

● ECC Capability: Advanced hardware LDPC engine

● Certifications: RoHS, CE, FCC, BSMI, VCCI, KCC

● Warranty: 3 years

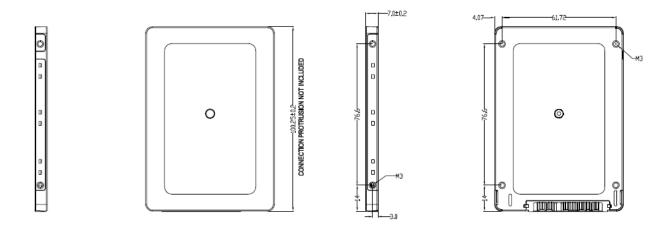*Varies depending on exact configuration

Performance

Capacity	Read Speed ATTO (MB/sec)	Write Speed ATTO (MB/sec)	Sequential Read Crystal Disk Mark (MB/sec)	Sequential Write Crystal Disk Mark (MB/sec)
120GB	Up to 560	Up to 410	Up to 530	Up to 380

*Performance may vary based on SSD capacity, hardware test platform, test software, operating system and other system variables

Schematics