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

- Advanced H/W LDPC ECC Technology
- Intelligent SLC Caching for improved performance
- DEVSLP (Device Sleep) supported
- Value-added software ADATA SSD Toolbox
- Supports S.M.A.R.T., TRIM Command, and NCQ

Ordering Information

Capacity	Model Number
120GB	ASP580SS-120GM
240GB	ASP580SS-240GM
480GB	ASP580SS-480GM
960GB	ASP580SS-960GM

Specifications

- Capacities: 120GB / 240GB / 480GB / 960GB
- NAND Flash Memory : 3D NAND
- 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	ATTO		CDM		AS SSD		4K Random		TBW
	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Seq. Read (MB/s)	Seq. Write (MB/s)	Read (IOPS)	Write (IOPS)	
120GB	Up to 520	Up to 320	Up to 520	Up to 320	Up to 480	Up to 350	20K	30K	25
240GB	Up to 520	Up to 440	Up to 520	Up to 440	Up to 480	Up to 380	20K	30K	50
480GB	Up to 520	Up to 450	Up to 520	Up to 450	Up to 500	Up to 430	35K	35K	100
960GB	Up to 520	Up to 450	Up to 520	Up to 450	Up to 500	Up to 430	40K	35K	200

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

Schematics