ADATA S510 Solid State Drive

Specifications

> **Capacities:** 60/120/240/480 GB

> **NAND Flash Components:** Multi-Level Cell (MLC) NAND Flash Memory

> **Interface:** SATA 6Gb/sec (SATA III)

> **Controller:** LSI SandForce 2200 series

> **Form Factor:** 2.5”

> **Dimensions:** 100 x 69.85 x 7mm (L x W x H)

> **Weight:** 68g

> **Shock Resistance:** 1500G

> **Certifications:** CE / FCC / VCCI / BSMI

> **ECC Recovery:** Up to 55 bits correctable per 512-byte sector (BCH)
*varies depending on exact configuration

Performance

Capacity	Read speed ATTO (MB/sec)	Write Speed ATTO (MB/sec)	Maximum 4KB Random Write Iometer	Sequential Read AS-SSD (MB/sec)	Sequential Write AS-SSD (MB/sec)	4K Random Read AS-SSD (MB/sec)	4K Random Write AS-SSD (MB/sec)
60 GB	Up to 550	Up to 500	80K	200	75	65	40
120 GB	Up to 550	Up to 510	85K	200	140	90	140
240 GB	Up to 555	Up to 530	75K	490	310	180	235
480 GB	Up to 540	Up to 460	50K	500	225	210	150

Test System: ASUS Sabertooth P67, Intel i5 2500K, 8GB DDR3 RAM, Windows 7 Professional Version

Features

> **MTBF:** 1,000,000 hrs

> **TRIM Support (requires OS support)**

> **NCQ Support**

> **Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T.) Support**

> **Backwards compatible with SATA II**

> **3.5” desktop conversion bracket**

> **Disk Migration Utility**

> **3-Year warranty**

> **OS Compatibility:** Windows 7 / Windows XP / Windows Vista / Mac OS X / Linux

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Environmental Parameters

> **Power Consumption:** 0.6W Idle
3.0W Active

> **Operating Temperature:** 0~70°C

> **Storage Temperature:** -40~85°C

> **Operating Humidity:** 10% to 90% RH (0° to 40°C)

> **Storing Humidity:** 5% to 90% RH (-10° to 40°C)

> **Max Operating Altitude:** 12000m

Ordering Information

Description	Capacity	ADATA Part No.
S510S3 60GB	60GB	AS510S3-60GM-C
S510S3 120GB	120GB	AS510S3-120GM-C
S510S3 240GB	240GB	AS510S3-240GM-C
S510S3 480GB	480GB	AS510S3-480GM-C

Dimensional Drawings