

ADATA S510 Solid State Drive

Specifications

- > **Capacities:** 120 GB
- > **NAND Flash Components:** 2xnm Multi-Level Cell (MLC) Asynchronous NAND Flash Memory
- > **Interface:** SATA 6Gb/sec (SATA III)
- > **Controller:** SandForce 2281
- > **Form Factor:** 2.5"
- > **Dimensions:** 100 x 69.85 x 9.5mm (L x W x H)
- > **Weight:** 76g
- > **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)	4K Random Write IOPS Iometer	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)
120 GB	Up to 550	Up to 510	Up to 50K	85K	200	140	90	140

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**
- > **Acronis True image HD, 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 120GB SF2281	120GB	AS510S3-120GM-C

Dimensional Drawings

