

ADATA S511 Solid State Drive

Specifications

- > **Capacities:** 60/120/240/480 GB
- > **NAND Flash Components:** 2xnm Multi-Level Cell (MLC) Synchronous 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
- > **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)
60 GB	Up to 550	Up to 500	60K	80K	455	85	65	85
120 GB	Up to 550	Up to 510	60K	85K	500	170	110	160
240 GB	Up to 550	Up to 520	60K	85K	520	280	175	225
480 GB	Up to 540	Up to 460	40K	40K	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.
S511S3 60GB SF2281	60GB	AS511S3-60GM-C
S511S3 120GB SF2281	120GB	AS511S3-120GM-C
S511S3 240GB SF2281	240GB	AS511S3-240GM-C
S511S3 480GB SF2281	480GB	AS511S3-480GM-C

Dimensional Drawings

