

RoHS Compliant

Serial ATA Flash Drive

AS510S Product Specifications



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Version 2.0

Apacer Technology Inc.

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Specifications Overview:

- **Compliance with SATA Revision 3.1**
 - SATA 6.0 Gbps interface
 - Backward compatible with SATA 1.5 and 3.0 Gbps interfaces
- **Capacity**
 - 64GB, 128GB, 256GB, 480GB
- **Performance***
 - Sequential read: Up to 550 MB/sec
 - Sequential write: Up to 520 MB/sec
 - Random read (4K): Up to 96,618 IOPS
 - Random write (4K): Up to 30,176 IOPS
- **Flash Management**
 - Global Wear Leveling
 - S.M.A.R.T.
 - Power Failure Management
 - TRIM
- **NAND Flash Type: MLC**
- **MTBF: >2,000,000 hours**
- **Endurance (in Terabytes Written: TBW)**
 - 64 GB: 134 TBW
 - 128 GB: 268 TBW
 - 256 GB: 537 TBW
 - 480 GB: 1075 TBW
- **Temperature Range**
 - Operating:
 - Standard: 0°C to 70°C
 - Storage: -40°C to 70°C
- **Supply Voltage**
 - 5.0 V ± 5%
- **Power Consumption***
 - Active mode:
 - 1,350 mW (64GB)
 - 1,550 mW (128GB)
 - 1,710 mW (256GB)
 - 1,710 mW (480GB)
 - Idle mode:
 - 400 mW (64GB)
 - 420 mW (128GB)
 - 430 mW (256GB)
 - 430 mW (480GB)
- **Connector Type**
 - 7-pin SATA signal connector
 - 15-pin SATA power connector
- **Form Factor**
 - 2.5"
 - Dimensions with 7mm enclosure: 100.00 x 69.85 x 6.90, unit: mm
- **Shock & Vibration****
 - Shock: 1,500 G
 - Vibration: 15 G
- **SATA Power Management Modes**
- **RoHS Comply**

*Varies from capacities. The values for performances and power consumptions presented are typical and may vary depending on flash configurations or platform settings.

**Non-operating

Part Number Listing

Capacity	Bulk P/N	Retail P/N
64GB	AP64GAS510S	AP64GAS510S-1
128GB	AP128GAS510S	AP128GAS510S-1
256GB	AP256GAS510S	AP256GAS510S-1
480GB	AP480GAS510S	AP480GAS510S-1

Revision History

Revision	Description	Date
1.0	Official release	8/9/2018
2.0	Document layout change	8/20/2018

Global Presence

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