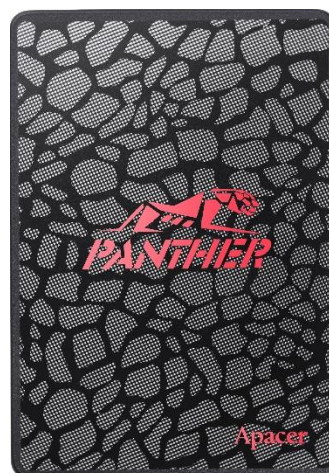


RoHS Compliant
Serial ATA Flash Drive
Product Specifications



Apr, 2021

Version 2.2

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**
 - 128GB, 256GB, 512GB, 1TB
- **Performance***
 - Seq. Read / Write:
 - 128GB : Up to 560 / 540 MB/s
 - 256GB : Up to 560 / 540 MB/s
 - 512GB : Up to 560 / 540 MB/s
 - 1TB : Up to 560 / 540 MB/s
 - (4K) Random Read / Write
 - 128GB : Up to 38K / 75K IOPS
 - 256GB : Up to 81K / 74K IOPS
 - 512GB : Up to 87K / 80K IOPS
 - 1TB : Up to 93K / 80K IOPS
- **Flash Management**
 - Global Wear Leveling
 - S.M.A.R.T.
 - Power Failure Management
 - TRIM
- **NAND Flash Type: 3D TLC**
- **MTBF: 1,500,000 hours**
- **Endurance (in Terabytes Written: TBW)**
 - 128 GB: 75 TBW
 - 256 GB: 180 TBW
 - 512 GB: 320 TBW
 - 1TB: 600 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:
 - 1,260 mW (128GB)
 - 1,450 mW (256GB)
 - 1,360 mW (512GB)
 - 1,620 mW (1TB)
 - Idle mode:
 - 320 mW (128GB)
 - 325 mW (256GB)
 - 320 mW (512GB)
 - 320 mW (1TB)
- **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	Retail PN	Bulk PN
128GB	AP128GAS350-1	AP128GAS350
256GB	AP256GAS350-1	AP256GAS350
512GB	AP512GAS350-1	AP512GAS350
1TB	AP1TBAS350-1	AP1TBAS350

Revision History

Revision	Description	Date
1.0	Official release	08/9/2018
2.0	Document layout change	08/20/2018
2.1	Change P/N	06/29/2020
2.2	Performance update	04/26/2021

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