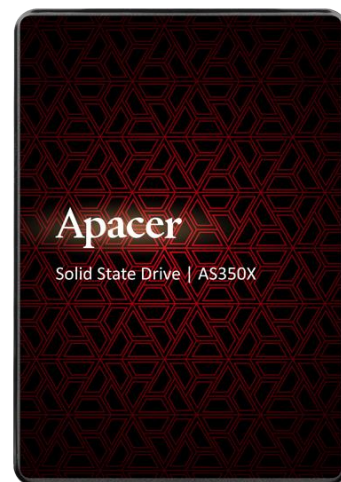


RoHS Compliant
Serial ATA Flash Drive
AS350X Product Specifications



Jan, 2021

Version 1.0

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**
 - 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 38K / 75K 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 NAND**
- **MTBF: 1,500,000 hours**
- **Endurance (in Terabytes Written: TBW)**
 - 128 GB: 75 TBW
 - 256 GB: 180 TBW
 - 512 GB: 425 TBW
 - 1 TB: 835 TBW
- **Temperature Range**
 - Operating:
 - Standard: 0°C to 70°C
 - Storage: -40°C to 85°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

1.1 Part Number Listing

Capacity	Bulk P/N	Retail P/N
128GB	AP128GAS350XR	AP128GAS350XR-1
256GB	AP256GAS350XR	AP256GAS350XR-1
512GB	AP512GAS350XR	AP512GAS350XR-1
1TB	AP1TBAS350XR	AP1TBAS350XR-1

1.2 Revision History

Revision	Description	Date
1.0	Official release	01/07/2021

Global Presence

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