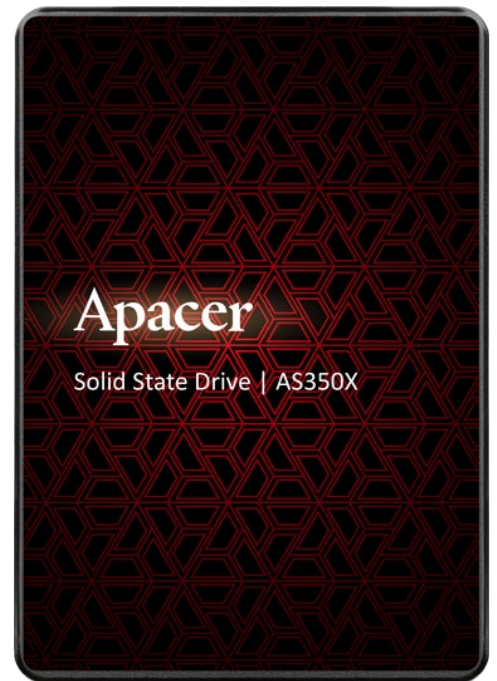


**RoHS Compliant**  
**Serial ATA Flash Drive**  
Consumer AS350X Product Specifications



**November 20, 2023**

**Version 1.2**

**Apacer Technology Inc.**

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## Specifications Overview:

- **Compliance with SATA Revision 3.1**
  - SATA 6 Gb/s interface
  - Backward compatible with SATA 1.5/3 Gb/s interfaces
- **Capacity**
  - 128, 256, 512 GB
  - 1, 2 TB
- **Performance<sup>1</sup>**
  - Sequential Read/Write
    - 128 GB: Up to 560/540 MB/s
    - 256 GB: Up to 560/540 MB/s
    - 512 GB: Up to 560/540 MB/s
    - 1 TB: Up to 560/540 MB/s
    - 2 TB: Up to 560/540 MB/s
  - 4K Random Read/Write
    - 128 GB: Up to 38K/75K IOPS
    - 256 GB: Up to 81K/74K IOPS
    - 512 GB: Up to 87K/80K IOPS
    - 1 TB: Up to 93K/80K IOPS
    - 2 TB: 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: 320 TBW
  - 1 TB: 600 TBW
  - 2 TB: 800 TBW
- **Temperature Range**
  - Operating : 0°C to 70°C
  - Storage : -40°C to 85°C
- **Supply Voltage**
  - 5V ± 5%
- **Power Consumption<sup>1</sup>**
  - Active mode (Max.): 1,620 mW
  - Idle mode: 325 mW
- **SATA Power Management Modes**
- **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<sup>2</sup>**
  - Shock: 1,500G
  - Vibration: 15G
- **RoHS Compliant**

Notes:

1. Varies from capacities. The values for performances and power consumptions presented are typical and may vary depending on flash configurations or platform settings.
2. Non-operating

## Product Ordering Information

| Capacity | Bulk P/N      | Retail P/N      |
|----------|---------------|-----------------|
| 128GB    | AP128GAS350XR | AP128GAS350XR-1 |
| 256GB    | AP256GAS350XR | AP256GAS350XR-1 |
| 512GB    | AP512GAS350XR | AP512GAS350XR-1 |
| 1TB      | AP1TBAS350XR  | AP1TBAS350XR-1  |
| 2TB      | AP2TBAS350XR  | AP2TBAS350XR-1  |

## Revision History

| Revision | Description         | Date       |
|----------|---------------------|------------|
| 1.0      | Initial release     | 1/7/2021   |
| 1.1      | Updated Performance | 4/26/2021  |
| 1.2      | Added 2TB support   | 11/20/2023 |

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