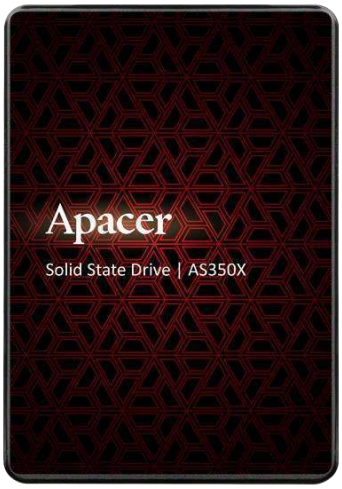
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RoHS Compliant

Serial ATA Flash Drive

AS350X Product Specifications



Jan, 2021

Version 1.0

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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

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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

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1.2 Revision History

Revision	Description	Date
1.0	Official release	01/07/2021

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