

Gaming PCIe Gen3 M.2 2280 SSD

AG2280P4U Product Specifications



Apacer Technology Inc.

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Specifications Overview:

- **PCIe Interface**
 - Compliant with NVMe 1.3
 - Compatible with PCIe Gen3 x4 interface
- **Capacity**
 - 256, 512 GB
 - 1, 2 TB
- **Performance¹**
 - Sequential read: Up to 3,500 MB/sec
 - Sequential write: Up to 3,000 MB/sec
 - Random read (4K): Up to 700K IOPS
 - Random write (4K): Up to 680K IOPS
- **Flash Management**
 - Global Wear Leveling
 - Bad Block Management
 - Power Failure Management
 - TRIM
 - S.M.A.R.T.
- **NAND Flash Type:** 3D NAND
- **MTBF:** 1,800,000 hours
- **Endurance**
 - 256GB: 170 TBW
 - 512GB: 350 TBW
 - 1TB: 760 TBW
 - 2TB: 1,300 TBW
- **Temperature Range**
 - Operating: 0°C to 70°C
 - Storage: -40°C to 85°C
- **Supply Voltage**
 - 3.3V ± 5%
- **Power Consumption¹**
 - Active mode (Max.): 4,118 mW
 - Power state (Max.): 70 mW
- **Connector Type**
 - 75-pin M.2 module pinout
- **Physical Characteristics**
 - Form factor: M.2 2280
 - Dimensions (unit: mm):
 - Single-sided: 80.00 x 22.00 x 3.75_(max.)
 - Double-sided: 80.00 x 22.00 x 5.00_(max.)
 - Net weight: 10.3g ± 5%
- **Shock & Vibration²**
 - Shock: 1,500 G/0.5msec
 - Vibration:
 - Frequency/Displacement: 20Hz~80Hz/1.52mm
 - Frequency/Acceleration: 80Hz~2000Hz/20G
- **RoHS Compliant**

Notes:

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

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Performance

Capacity	256GB	512GB	1TB	2TB
Performance				
Sequential Read (MB/s)	3,500	3,500	3,500	3,500
Sequential Write (MB/s)	1,200	2,300	3,000	3,000
4K Random Read (IOPS)	210K	400K	670K	700K
4K Random Write (IOPS)	315K	600K	670K	680K

Product Ordering Information

Capacity	Bulk P/N
256GB	AP256GAG2280P4U
512GB	AP512GAG2280P4U
1TB	AP1TBAG2280P4U
2TB	AP2TBAG2280P4U

Capacity	Retail P/N
256GB	AP256GAG2280P4U-1
512GB	AP512GAG2280P4U-1
1TB	AP1TBAG2280P4U-1
2TB	AP2TBAG2280P4U-1

Revision History

Revision	Description	Date
1.0	Initial release	10/14/2026