XPG SX7000 PCIe Gen3x4 M.2 2280 Solid State Drive

Utilizing the super-fast PCIe Gen3x4 interface, the SX7000 reaches extremely high R/W speeds of up to 1800/850MB per second, outranking SATA 6Gb/s by a huge margin - several times over, in fact! NVMe 1.2 qualified, the SX7000 delivers superior random read/write performance and multi-tasking capabilities. It implements 3D NAND Flash, which provides higher storage density and reliability compared to 2D NAND. With support for SLC Caching, DRAM Cache Buffer, and LDPC ECC technologies, the SX7000 maintains optimized performance and data integrity during even the most intense gaming, rendering, overclocking, or other high-demand applications.

Features

- Ultra-fast PCIe Gen3x4 interface: R/W speed up to 1800/850MB/s
- NVMe 1.2 certified
- 3D NAND Flash
- Advanced LDPC ECC Technology
- Intelligent SLC caching and DRAM cache buffer
- RAID Engine and Data Shaping
- Compact M.2 2280 form factor – ideal for gaming notebooks and high-end desktops

Ordering Information

Capacity	Model Number	EAN Code
128GB	ASX7000NP-128GT-C	4713218460264
256GB	ASX7000NP-256GT-C	4713218460271
512GB	ASX7000NP-512GT-C	4713218460288
1TB	ASX7000NP-1TT-C	4713218460295

Specifications

- Capacities: 128GB / 256GB / 512GB / 1TB
- Controller: SMI
- NAND Flash: 3D TLC
- Interface: PCIe Gen3x4
- Form Factor: M.2 2280
- MTBF: 2,000,000 hours
- Dimensions (L x W x T): 22 x 80 x 3.5mm
- Weight: 8g

- Power Consumption: 0.33W Active (Typical), 0.14W Slumber (Typical) (*measured by power meter)
- Operating Temperature: 0°C~70°C,
- Storage Temperature: -40°C~85°C
- Shock Resistance: 1500G/0.5ms
- LDPC ECC Engine
- Certifications: RoHS, CE, FCC, BSMI, VCCI, KC
- Warranty: 5 years

Performance

Capacity	ATTO Seq. Read (MB/sec)	ATTO Seq. Write (MB/sec)	CDM (QD32) Seq. Read (MB/sec)	CDM (QD32) Seq. Write (MB/sec)	AS SSD Seq. Read (MB/sec)	AS SSD Seq. Write (MB/sec)	4K Random Read IOPS	4K Random Write IOPS	TBW
128GB	660	450	660	450	620	400	35K	95K	80TB
256GB	1370	820	1370	810	1240	800	70K	130K	160TB
512GB	1750	860	1800	850	1540	800	130K	140K	320TB
1TB	1750	850	1800	840	1540	800	130K	140K	640TB

*Performance may vary based on SSD capacity, hardware test platform, test software, operating system and other system variables

Schematics