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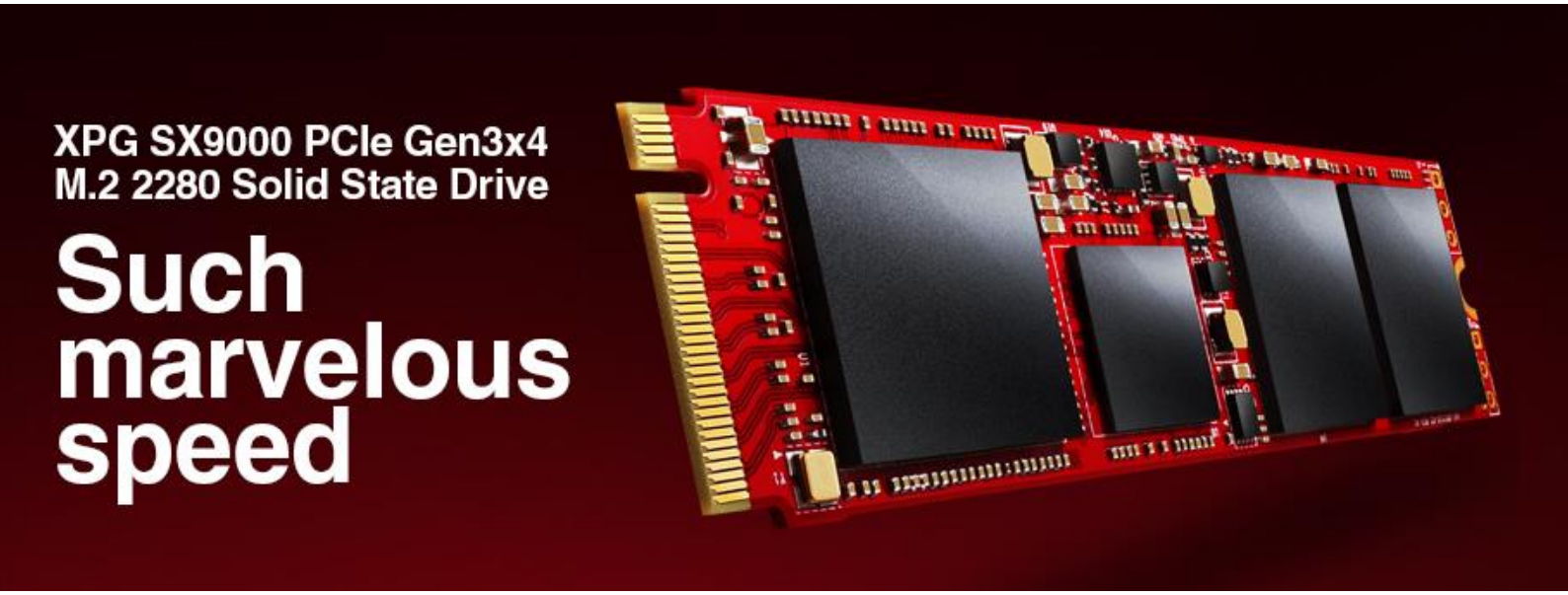


XPG SX9000 PCIe Gen3x4 M.2 2280 Solid State Drive

The SX9000 M.2 2280 SSD is our fastest SSD to date, designed for PC enthusiasts, dedicated gamers, and overclockers. It features an ultra-fast PCIe Gen3x4 interface and a Marvell controller, offering sustained peak R/W speeds of 2800/1450MB per second, outranking SATA 6Gb/s by a huge margin. NVMe 1.2 qualified, the SX9000 delivers superior random read/write performance and multi-tasking capabilities. With DRAM Cache Buffer and LDPC ECC technologies, it maintains high speed and data integrity during even the most intense gaming, rendering, overclocking, and other high demand applications.

Features

- Ultra-fast PCIe Gen3x4 interface: R/W speed up to 2800/1450MB/s
- NVMe 1.2 certified
- Marvell controller
- Advanced LDPC ECC Technology
- DRAM cache buffer
- High TBW up to 1000TB for high durability
- Compact M.2 2280 form factor – ideal for gaming notebooks and high-end desktops

Ordering Information

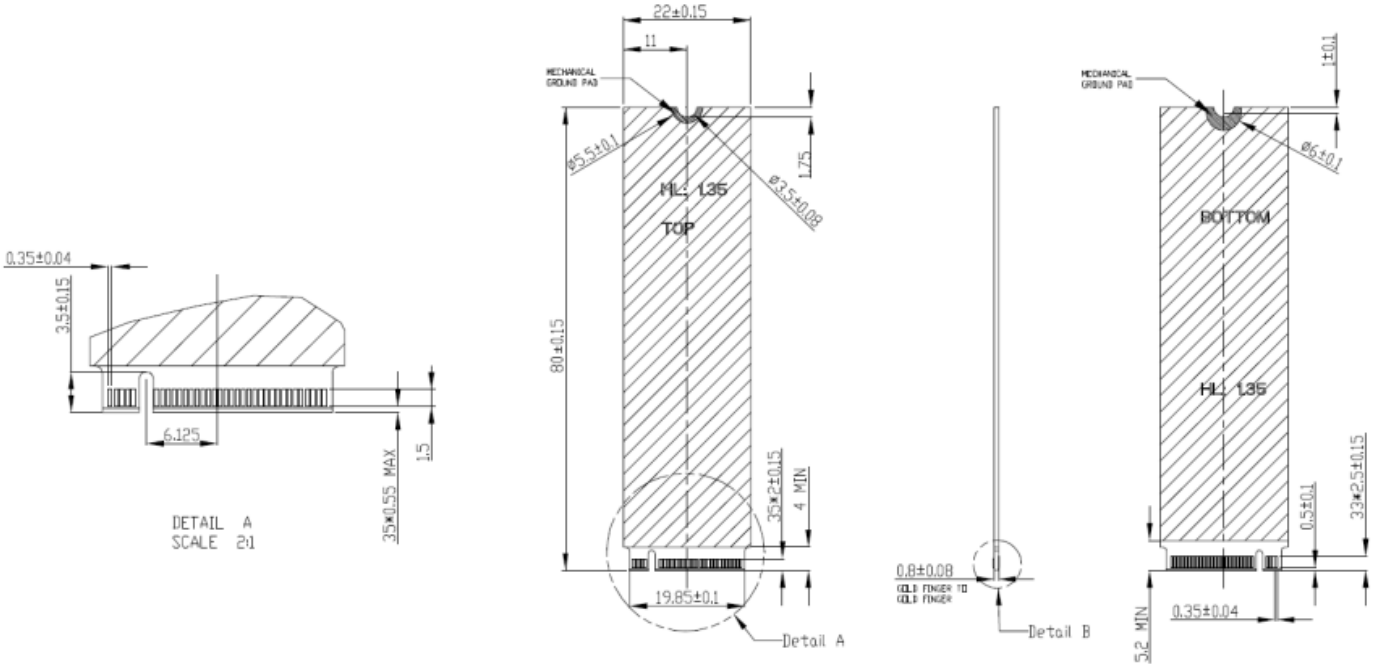
Capacity	Model Number	EAN Code
256GB	ASX9000NP-256GM-C	4713218461070
512GB	ASX9000NP-512GM-C	4713218461087
1TB	ASX9000NP-1TM-C	4713218461094

Specifications

- Capacities: 256GB / 512GB / 1TB
- Controller: Marvell
- NAND Flash: MLC
- 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
256GB	2700	990	2700	1000	2200	720	200K	220K	250TB
512GB	2800	1450	2800	1400	2250	1000	300K	220K	500TB
1TB	2800	1450	2800	1430	2350	1050	310K	240K	1000TB

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

Schematics