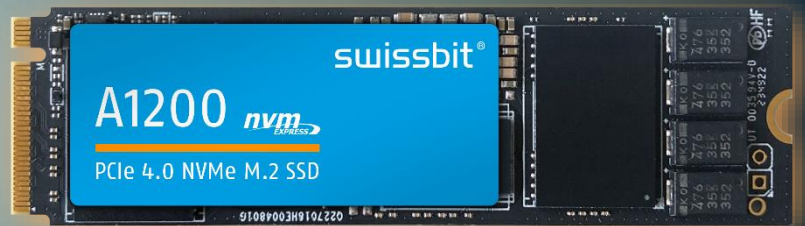


Reliable, consistently high and sustained performance.



A1000 / A1200 PCIe Gen4 M.2 SSDs



## Key Benefits

- Optimized for reliable, constantly high sustained performance for write-intensive applications
- Ideal for: edge computing, robotics, data analytics, AI & ML, gaming, boot device, and write-intensive workloads in surveillance, monitoring, video, etc.
- Security features: AES256 encryption, crypto-erase, TCG Opal 2.0, Secure Boot
- Integrated Swissbit powersafe™ PLP technology for advanced data loss protection

The PCIe Gen4 M.2 SSDs A1000 and A1200 are designed to meet the demands of high-performance, mission-critical applications, focusing on consistent performance, low latency, and data integrity. They deliver reliable and sustained performance, utilizing a TLC-direct firmware architecture that optimizes the SSDs for high, constant, and sustained write workloads. Both feature an eight-channel DRAM-based controller, which helps achieve low latency and high-speed performance.

The A1000 and A1200 are available in the M.2 2280 form factor, with or without a heatsink, and come in capacities from 480GB to 1.92TB.

# Swissbit A1000 / A1200 Product Series

Applications in automation, robotics, data analytics, and edge computing require storage solutions with consistent write performance and low latency to ensure reliable data recording and real-time processing.

The A1200 SSD meets these demands with a PCIe Gen 4.0 interface, delivering up to 6,000 MB/s sequential read and 1,800 MB/s write speeds. It also supports random read speeds of up to 800,000 IOPS and write speeds of up to 60,000 IOPS, making it ideal for high-performance workloads.

Built with eTLC NAND, the A1200 offers over 1 DWPD for five years, ensuring durability for write-intensive applications. Swissbit’s powersafe™ technology with high-quality tantalum capacitors enhances reliability by protecting data during power failures.

The A1200 is designed for an operating temperature range of 0°C to 70°C. Its sibling model, the A1000, shares the same technical foundation but withstands a wider temperature range from -25°C to 85°C, making both models ideal for demanding environments.

## Feature List

- TCG OPAL 2.00 / AES256
- Secure Boot
- Crypto Erase
- End-to-End (E2E) Data Protection
- Multi-namespace support up to 64
- powersafe™ functionality (Power Loss Protection for data in flight)
- Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.)



	A1200		A1000	
	M.2 2280	M.2 2280 with heatsink	M.2 2280	M.2 2280 with heatsink
Operating Temperature	0-70°C	0-70°C	-25 to 85°C	-25 to 85°C
480GB	●	●	●	●
960GB	●	●	●	●
1.92TB	●	●	●	●

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