# PRESS RELEASE

**Swissbit unveils PCIe Gen4 SSD A1200: Delivering reliable, consistently high performance**

Bronschhofen, Switzerland. February 4, 2025 – Swissbit introduces the latest addition to its PCIe portfolio, the new A1200. The PCIe Gen4 M.2 SSD is designed to meet the demands of high-performance, mission-critical applications, focusing on consistent performance, low latency, and data integrity. The A1200 utilizes a TLC-direct firmware architecture that optimizes the SSD for constant, high and sustained write workloads. It features an eight-channel DRAM-based controller, which helps it to achieve low latency and true Gen4 performance. The A1200 is available in the M.2 2280 form factor, with or without a heatsink and comes in capacities ranging from 480 GB to 1.92 TB. The SSD is designed for an operating temperature range of 0°C to 70°C. The new product line also includes the A1000 model, which shares the same technical foundation as its sibling but is built to operate in a wider temperature spectrum ranging from 25°C to 85°C.

Applications spanning automation, robotics, data analytics and edge computing increasingly require storage solutions that deliver consistent write performance and low latency since these factors are crucial for ensuring reliable data recording, real-time processing, and overall operational efficiency. SSDs featuring constant write performance and low latency empower businesses to optimize operations, enhance productivity, and achieve higher performance levels. This is where the Swissbit A1200 comes into play.

The A1200 delivers strong sustained performance with a PCIe Gen 4.0 interface, achieving sequential read speeds of up to 6,000 MB/s and write speeds of up to 1,800 MB/s. It also supports random read speeds of up to 800,000 IOPS and write speeds of up to 60,000 IOPS, making it a suitable choice for high-demand workloads that require fast data processing.

In terms of endurance, the A1200 is built with eTLC NAND technology, offering over 1 Drive Write Per Day (DWPD) for five years. This makes it an ideal option for write-intensive applications, ensuring long-term durability and reliability. Security features such as TCG Opal 2.0, AES256 encryption, Secure Boot, and Crypto Erase provide robust data protection. Additionally, the A1200 supports up to 64 namespaces, enhancing its flexibility in enterprise environments.

For additional reliability, the SSD incorporates Swissbit’s powersafe™ technology with high-quality tantalum capacitors, offering protection against power failures and helping to safeguard data integrity even in unstable power conditions.

Variants and availability

Both the A1200 and the A1000 (designed for the extended temperature range of -25° to 85°C) will be available in late February in 480 GB, 960 GB and 1.92 TB capacities. All variants are available with or without heat sinks.

Event note: Visit Swissbit at Embedded World in Nuremberg from March 11 to 13 in Hall 1, Stand 1-510.

**Available images**

The following images are available for download in printable format at: <https://kk.htcm.de/press-releases/swissbit/>

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| Image source: Swissbit**The new A1200 from Swissbit: PCIe Gen4 SSD designed for mission-critical applications that require reliable, sustained performance.** |

**About Swissbit**

Swissbit AG is the leading European technology company for data storage and security solutions. Our vision is to build a connected world where data and identities are trusted, ensuring digital sovereignty. Combining unique expertise in hardware and firmware design with advanced packaging know-how, Swissbit develops and manufactures innovative data storage, data protection, and digital identity solutions.

Swissbit's solutions are utilized across diverse industries, including industrial automation, networking & communications, edge computing, transportation, critical infrastructure, defense, and the public sector.

Founded in 2001, Swissbit operates offices in Switzerland (HQ), Germany, the USA, Japan, and Taiwan, and maintains its own semiconductor production facility in Berlin, Germany.

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