

# Swissbit N5200: Highest IOPS at lowest current consumption for Enterprise



U.2 15mm



E1.S (5.9mm / 9.5mm / 15mm)

## Unprecedented Performance and Data Security for Enterprise and Edge Data Centers

### Key Benefits

- Reduces power usage by up to 30 %, setting a new industry standard for energy efficient Gen4 SSDs.
- Doubles the operational speed, providing peak performance with the best IOPS/Watt ratio.
- Accelerates data access, significantly enhancing server performance and data processing.
- Offers advanced storage solutions with improved efficiency for managing data.
- Features high durability, ensuring a lower risk of failure from wear and tear.
- Optimally designed for data centers and mission-critical environments, where consistent reliability is crucial.

The new Swissbit Enterprise SSD N5200 is a particularly efficient storage solution that consumes up to 30 percent less power than other PCIe Gen4 SSDs while delivering up to twice the performance. This makes the N5200 the industry's best performing SSD in terms of IOPS-per-watt ratio. In addition, the product series offers a wide range of features essential for operation in modern enterprise environments, including hardware-based security features, advanced telemetry, OCP Cloud Specification 1.0, and Power Loss Protection (PLP).

The N5200 range is Swissbit's first SSD solution available in Enterprise and Data Center Standard Form Factor (EDSFF) E1.S in addition to U.2. It is available in storage capacities from 1.92 to 7.68 TB.

## Swissbit N5200 Product Series

The N5200 SSD features a 4-lane PCIe and an NVMe 1.4 interface and offers sequential data rates of up to 7,000 MB/s read and 4,200 MB/s write. Random reads and writes reach up to 1.35 million IOPS and 450,000 IOPS, respectively. In terms of flash memory longevity, N5200 delivers endurance values of at least 1 DWPD (Drive Writes Per Day) measured against standardized workloads (JEDEC Enterprise Workload) over a 5-year period.

In addition to the U.2 (15 mm) format, the N5200 Enterprise SSD is also available in three compact E1.S form factor variations: 5.9 mm, 9.5 mm, and 15 mm. Compared to conventional m.2 SSD's, E1.S provides

greater space for flash packages and offers significant advantages in terms of thermal efficiency, space requirements and power consumption. Furthermore, E1.S offers symmetrical package (9.5mm) and asymmetrical heatsink (15mm) variants that improve cooling and performance of vented server assemblies.

N5200 complies with the OCP Cloud Specification 1.0, as defined by the Open Compute Project (OCP) with the aim of improving data center efficiency, flexibility, and innovation. It contains guidelines and design templates for many types of data center infrastructure and components.

### Advanced NVMe featureset

- OCP NVMe Cloud SSD Specification 1.0 support
- TCG OPAL 2.01 / AES256
- Secure Boot
- Crypto Erase
- End-to-end path protection
- Multi-namespace support up to 128
- powersafe™ functionality



Capacity Class	E1.S 5.9mm	E1.S 9.5mm	E1.S 15mm	U.2 15mm
1.92TB	●	●	●	●
3.84TB	●	●	●	●
7.68TB	●	●	●	●

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