# PRESS RELEASE

**For networking, edge and IoT applications: Swissbit expands PCIe portfolio**

**N2000 and N3000 PCIe NVMe SSD families combine low power consumption with optimized temperature and performance management**

Bronschhofen, Switzerland. June 27, 2024 - Storage specialist Swissbit continues to strategically expand its PCIe offerings. The new N2000 (Gen3 PCIe) and N3000 (Gen4 PCIe) product families primarily address applications that require PCIe performance as well as a balanced ratio of low power consumption and reduced heat generation. Swissbit thus meets the requirements of edge servers and other systems with limited cooling capabilities due to their compact design or whose power consumption is restricted. Swissbit combines these properties with its usual reliability in the extended temperature range of -40°C to +85°C. Security functions such as TCG Opal 2.0 as well as a wide variety of M.2 2230, 2242 or 2280 form factors and storage capacities from 20 GB to 1,920 GB top off the list of features.

N2000: Balanced ratio of performance and power consumption

The N2000 family comprises the N2000 and N2600 series and is optimized for applications that require high reliability and energy efficiency. The DRAM-less design minimizes heat generation and achieves a good balance between performance and energy consumption. The SSDs are PCIe Gen 3x4 compliant and are available in M.2 2230/2242/2280 form factors. The N2000 series offers storage capacities from 60 GB to 480 GB with TLC technology. The spectrum of the N2600 with pSLC ranges from 20 GB to 160 GB and offers an increased service life. The features are complemented by standard integrated security functions such as AES256 encryption, Crypto Erase and TCG Opal 2.0.

Equipped in this way, the N2000 family is ideal for green IoT applications such as charging stations, industrial applications, embedded systems, data logging, and boot OS scenarios.

N3000: Optimized for constant performance and high endurance

The N3000 Gen4 PCIe SSD family is based on a DRAM-based controller architecture and offers reliable and secure data processing with maximum system integrity. Thanks to optimized temperature and power management, the SSDs guarantee high, consistent performance even under demanding thermal environmental and system conditions. The N3000 series is available in M.2 2242/2280 form factors with TLC technology and capacities ranging from 240 GB to 1,920 GB. The same applies to the N3002 PLP series, which is available in the M.2 2280 form factor. The N3602 PLP series with pSLC technology, which is available in the M.2 2280 form factor with storage capacities ranging from 80 GB to 320 GB, is suitable for particularly high endurance requirements. The N3002 and N3602 series also offer the industry-leading Swissbit powersafe™ PLP (power loss protection) feature.

The N3000 family also features security functions such as AES256, Crypto Erase and TCG Opal 2.0 by default. In addition to industrial applications, the SSDs are particularly suitable for networking systems such as routers or switches, as well as edge servers.

High performance in a miniature format: BGA 1620 PCIe SSD E2000

Especially for embedded systems, Swissbit offers a solderable alternative to the N2000 in the form of the E2000 PCIe BGA family. The E2000 and E2600 series offer full PCIe SSD performance in a multi-chip design measuring just 3.2 square centimeters. The ultra-compact BGAs also support the ambient temperature range from -40 to +85 °C and are available with storage capacities ranging from 60 GB to 480 GB (E2000, TLC) and 20 GB to 160 GB (E2600, pSLC).

**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  **Swissbit N2000 family** | Image source: Swissbit  **Swissbit N3000** |
| Image source: Swissbit  **PCI BGA: Swissbit E2000** |

**About Swissbit**

Swissbit AG is the leading European manufacturer of storage, security and embedded IoT solutions for demanding applications. Swissbit combines its unique competences in storage and embedded IoT technology with its advanced packaging know-how. This expertise allows our customers to reliably store and protect data in industrial, NetCom, automotive, medical and fiscal applications as well as across the Internet of Things (IoT).

Swissbit develops and manufactures industrial-grade storage and security products “Made in Germany” with high reliability, long-term availability, and custom optimization.

Besides FIDO2 security sticks, Swissbit offers a wide range of storage devices includes SSDs with PCIe and SATA interface such as mSATA, Slim SATA, CFast™, M.2 and 2.5” as well as CompactFlash, USB flash drives, SD Memory Cards, micro SD Memory Cards and managed NAND BGAs like e.MMC. All security products are available in various application specific editions as USB flash drives, SD Memory Cards, and micro SD Memory Cards.

Swissbit was founded in 2001 and has offices in Switzerland, Germany, USA, Japan and Taiwan. Swissbit owns the registered trademarks Swissbit® and Hyperstone®. Since 2020, the independent investment firm Ardian is holding a majority stake in the company to support its growth.

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