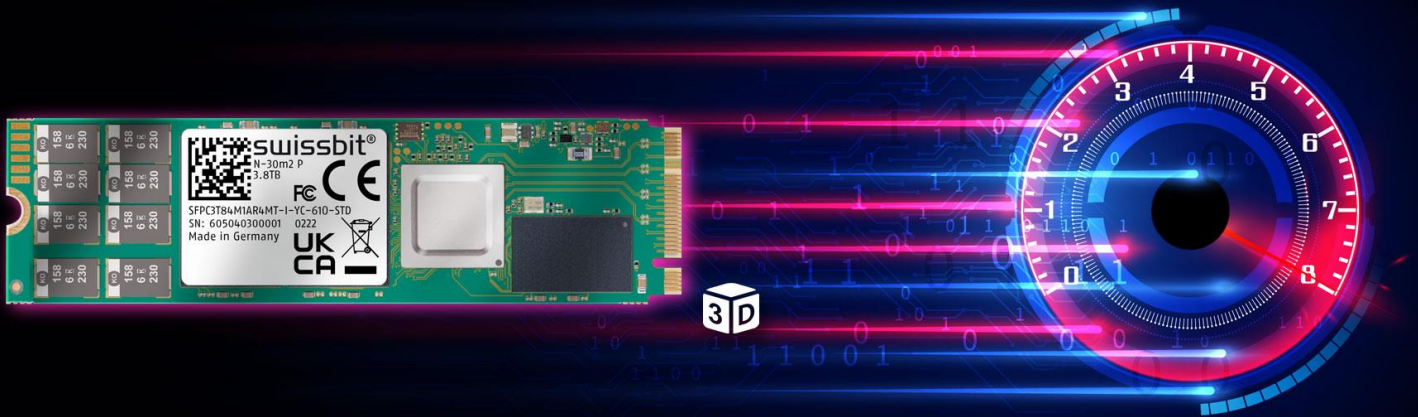


High Performance Swissbit PCIe-SSD N-30m2



High performance PCIe SSD N-30m2 for most demanding industrial applications

Key Benefits

- Excellent PCIe/NVMe sustained write performance at high temperature and without need of active or passive cooling makes it an ideal solution for fan less and encapsulated embedded systems
- Robustness, data reliability and data integrity over the entire lifetime at changing ambient conditions
- Immunity against sudden power losses and data integrity, even if data has not been accessed for long period of time
- Longevity and true industrial 3D TLC NAND technology
- Designed for applications requiring highest reliability and data integrity at rough environmental conditions



By combining performance, endurance, and large storage capacity in a compact PCIe M.2 module, Swissbit has expanded its range of storage solutions for the most demanding applications with its new N-30m2 range.

Customers in the industrial, NetCom and automotive sectors benefit from exceptional write performance that requires no active or passive cooling even at high temperatures.

As a result, the N-30m2 is an excellent choice for fanless and enclosed embedded systems. For maximum reliability in mission-critical applications, the series is optionally available with Swissbit's industry-leading "powersafe" power loss protection technology.

The PCIe-SSD is available in both M.2 2242 and M.2 2280 form factors with storage capacity ranging from 240 GB to 3.84 TB.

N-30 Product Series

The new N-30m2 range is the top choice for any applications demanding sustained high performance for write-intensive workloads. PCIe Gen3x4, NVMe 1.3, and onboard DRAM deliver the required performance, making it ideal for use as a boot medium as well as for data recording and logging.

As Swissbit's top-performing industrial SSD, it combines durability, greatest reliability, and lifetime data integrity, even in extreme environmental conditions.

Storage capacity for the N-30m2 with 3D TLC NAND will range from 240 GB to 3.84 TB. Of course, Swissbit will also offer a pseudoSLC version of its N-36m2 range for even greater endurance requirements, allowing for a 10x higher write load. This version will be available in capacities ranging from 80 to 320 GB.

As an option: Industry-leading PLP protection "powersafe"

For maximum reliability, especially in mission-critical applications, the N-30/36m2 is optionally available with the enhanced "powersafe" PLP level. This special feature secures data in the event of a sudden power failure even during the transfer from the host to the controller (dynamic data) or from the DRAM to the NAND (cached data). Intelligent energy management in the firmware and the use of reliable tantalum capacitors, which store energy during SSD operation, make this feasible.

Key Applications

- Datacenter, routers and switches
- Transportation and telemetry
- Industrial PCs, PLCs and autonomous robots
- Autonomous driving platforms for automotive
- Casino gaming
- Medical & healthcare
- High resolution imaging

N-30m2 / N-36m2

Type	M.2 PCIe / NVMe
Standard & Interface	PCIe 3.1 / NVMe 1.3
Form Factor	M.2 2280, 2242 M key, 4 lanes
Outline Dimensions	80, 42 x 22 x 3.58 mm
Flash Type	3D NAND TLC / pSLC
Density Range	TLC: 240 GB – 3,840 GB pSLC: 80 GB – 320 GB
Data Retention	10 years @ life begin 1 year @ life end
Endurance (3D TLC), Sequential Enterprise	up to 3 DWPD up to 0.77 DWPD
Operating Temperature	Industrial: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Performance	Sequential Read/ Write up to 3,500 / 3,100 MBs Random 4KB Read/ Write up to 475,000 / 525,000 IOPS
Humidity	85 % RH 85 °C, 1,000 hrs
Voltage	3.3V +- 5%

Swissbit Europe (HQ)

Tel. +41 71 913 03 00
sales@swissbit.com

Swissbit North America

Tel. +1 978-490-3252
salesna@swissbit.com

Swissbit Japan

Tel. +81 3 6258 0521
sales-japan@swissbit.com

Swissbit Asia

Tel. +886 912 059 197
salesasia@swissbit.com