swissbit®

Product Fact Sheet

USB Flash Drive and Hardware Security Module

PU-50n iShield HSM Series

USB 3.1 SuperSpeed, MLC

Extended Temperature Grade

Date: August 12, 2022
Revision: 1.00

durabit™

"the better MLC"

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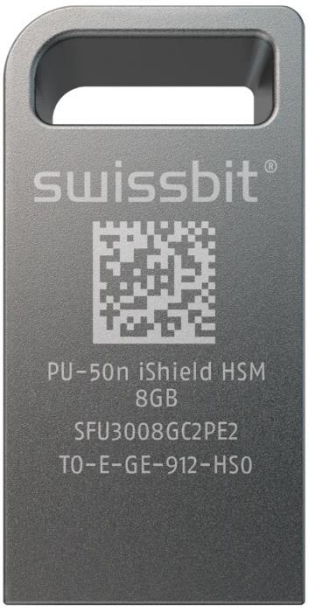

aws Qualified Device AWS IoT Greengrass

Made in Germany

Product Summary

- **Capacities:** 8 GBytes
- **Form Factor:** USB3.1 solid state flash drive with USB Type-A connector (24.0 mm x 12.1 mm x 4.5 mm)
- **Compliance:** USB 3.1 Gen 1 SuperSpeed specification compatible (backward compliance with USB 2.0/1.1)
- **Operating Temperature Range[1]:**
  - Extended: -25 °C to 85 °C
- **Performance:**
  - Read Performance: Sequential Read up to 100 MBytes/s, Random Read IOPS up to 2'500
  - Write Performance: Sequential Write up to 25 MBytes/s, Random Write IOPS up to 600
- **Operating Voltage:** 5.0 V ± 10%
- **Data Retention:** 10 Years @ Life Begin; 1 Year @ Life End

Product Features

- Retrofit Hardware Security Module using standard USB interface
  - Secure & tamper-proof key storage for IoT applications
  - Supports PKCS#11 / PKCS#15 (IsoApplet pre-loaded)
  - Compatible with OpenSC
  - Qualified for AWS IoT Greengrass

- High quality, industrial grade USB memory stick
  - Compact & robust metal housing
  - MLC NAND with durabit-feature for best-in-class endurance

- Secure Element embedded in hardware (COB)
  - CC EAL 6+
  - RSA up to 2048 bit
  - ECC up to 384 bit

Ordering Information

Product Type	Product Series	Capacity	Part Number
USB nano	PU-50n iShield HSM	8 GBytes	SFU3008GC2PE2T0-E-GE-912-HS0

Why Swissbit?

Swissbit is focused on the design, development, manufacture, and support of leading edge memory and storage solutions for the worldwide OEM/ODM marketplace. As a global supplier, Swissbit recognizes and addresses the higher level of application requirements of today's industrial, Netcom, and automotive customers by providing best-in-class products and services, with uncompromised attention to driving overall value and quality.

[1] Adequate airflow is required to ensure the temperature, as reported in the S.M.A.R.T. data, does not exceed the specified maximum operating temperature.