

swissbit®

PRELIMINARY
Product Fact Sheet

USB Flash Drive and Hardware Security Module

PU-50n iShield HSM Series

USB 3.1 SuperSpeed, MLC

Extended Temperature Grade

Date: June 06, 2022
Revision: 0.91

durabit™

“the better MLC”



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 Range¹:**
 - 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
 - Works with AWS Greengrass (certification pending)
- 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

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.

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