swissbit®

Product Fact Sheet

Secure microSDHC Memory Card
for Cameras

PS-45u iShield Camera Series
UHS-I, MLC

Industrial Temperature Grade

Date: Feb 26, 2021
Revision: 1.00

durabit™

Made in Germany

Product Summary

- **Capacities:** 16 GBytes, 32 GBytes
- **Form Factor:** Standard microSD Memory card form factor – 15.0mm x 11.0mm x 0.7mm (1.0mm)
- **Compliance:** Fully compliant with SD Memory Card specification 2.0 and 3.0 and microSD Memory Card Addendum 4.00
- **Performance:**
  - SD Default speed, SD High speed, SD UHS-I, Speed Class 10
  - Read Performance: Sequential Read up to 16 MBytes/s, Random Read IOPS up to 800
  - Write Performance: Sequential Write up to 13 MBytes/s, Random Write IOPS up to 550
- **Operating Temperature Range[1]:**
  - Industrial: -40 °C to 85 °C
- **Operating Voltage:** 2.7...3.6V normal operating voltage (Low-power CMOS technology)
- **Data Retention:** 10 Years @ Life Begin / 1 Year @ Life End
- **Endurance @ Max Capacity[2]:** 85 TBW (TeraBytes Written)

Product Features

- **Host-agnostic plug-and-play** solution for protecting data recorded on **common cameras**
- **Intended usage:** drone camera, body camera, professional photography (DSLR), dash cam, surveillance camera, action camera, camera traps, and more.
- **Hardware encryption** (AES 256bit) and **access protection** integrated on the memory card
- Supports **loop recording** (e.g. in dashcams) without host modification
- Comes with **user-friendly management** tool (Win, Lin, Mac)

Ordering Information

Product Type	Product Series	Capacity	Part Number
microSD	PS-45u iShield Camera	16 GBytes	SFSD016GN3PM1TO-I-LF-010-SW3
microSD	PS-45u iShield Camera	32 GBytes	SFSD032GN3PM1TO-I-HG-010-SW3

Why Swissbit?

Swissbit strives to create innovative technologies for future market opportunities utilizing a highly skilled in-house research and development team. Swissbit maintains a marketing edge by continuing to manufacture world-class high quality memory and security products and providing customers with both high value and low cost of ownership achieved through efficient processes and procedures.

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[1] Adequate airflow is required to ensure the temperature, does not exceed °85°C (industrial temperature card)

[2] According to JEDEC (JESD47I), the time to write the full TBW is a minimum of 18 months. Higher average daily data volume reduces the specified TBW. The values listed are estimates and are subject to change without notice.

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