

durabit™

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



Product Fact Sheet

PS-45u iShield Camera Series



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 Range¹:**
 - 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 Capacity²:** 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	SFSD016GN3PM1T0-I-LF-010-SW3
microSD	PS-45u iShield Camera	32 GBytes	SFSD032GN3PM1T0-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.

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

² According to JEDEC (JESD471), 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Swissbit:

[SFSD016GN3PM1TO-I-LF-010-SW3](#) [SFSD032GN3PM1TO-I-HG-010-SW3](#)