swissbit®

Product Fact Sheet

Secure microSDHC / SDXC **Memory Card**

PS-66u iShield Camera Series UHS-I Interface, 3D pSLC

Industrial Temperature Grade

Date: April 11, 2024 Revision: 1.00



Product Fact Sheet PS-66u 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 5.0 and microSD Memory Card Addendum 4.00
- Performance:
 - SD Default speed, SD High speed, SD UHS-I, Speed Class 10, Video Speed Class 30
 - Read Performance: Sequential Read up to 39,5 MBytes/s, Random Read IOPS up to 767
 - Write Performance: Sequential Write up to 38,9 MBytes/s, Random Write IOPS up to 1480
- Operating Temperature Range¹:
 - o 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 32GB2: 967 TBW (TeraBytes Written) in sequential write workload; 132 TBW in 4k random write workload

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 (Windows, Linux, MacOS): iShield Camera Card Tool (iCCT)

Ordering Information

Product Type	Product Series	Capacity	Part Number
microSD	PS-66u iShield Camera	16 GBytes	SFSD016GN1PT1TB-I-5E-06P-SW3
microSD	PS-66u iShield Camera	32 GBytes	SFSDo32GN1PT1TB-I-6F-06P-SW3

Why Swissbit?

Swissbit AG

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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.

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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.