swissbit®

Product Fact Sheet

Secure Data Protection
SDHC / SDXC
Memory Card

PS-66 DP Series
UHS-I Interface, pSLC

Industrial Temperature Grade

Date: November 14, 2023
Revision: 1.00

Made in Germany

Product Summary

- **Capacities:** 16 GBytes, 32 GBytes, 64 GBytes
- **Form Factor:** Standard SD Memory card form factor – 32.0mm x 24.0mm x 2.1mm
- **Compliance:** Fully compliant with SD Memory Card specification 6.10
  o SDHC default/high speed mode and UHS supported
  o Speed class 10/U3/V30/A1 according SD6.10 specification
  o 16-32GB / FAT32 and 64GB / exFAT
- **Performance:**
  o SD Default speed, SD High speed, SD UHS-I
  o Read Performance: Sequential Read up to 47 MBytes/s, Random Read IOPS up to 1400
  o Write Performance: Sequential Write up to 46 MBytes/s, Random Write IOPS up to 1000
- **Operating Temperature Range[1]:**
  o Industrial: -40 °C to 85 °C
- **Storage Temperature Range:**
  o Industrial: -40 °C to 100 °C
- **Operating Voltage:** 2.7...3.6V normal operating voltage (Low-power CMOS technology)
- **Data Retention:** 10 Years @ Life Begin / 1 Year @ Life End
- **Humidity:** 85% RH @85°C 1000h
- **Electromagnetic Compatibility Test:** Radiated Emission; Radiated Immunity; Electrostatic Discharge

Product Features

- Optimized FW algorithms especially for high read access and long data retention applications
  o Patented power-off reliability technology, Wear Leveling technology
  o Write Endurance technology, Read Disturb Management
  o Data Care Management, Near miss ECC technology
  o Diagnostic features with Life Time Monitoring tool support
  o Number of card insertions/removals 20,000
- **AES 256 bit flash memory encryption**
- **Encrypted security activation**
- **User PIN and administrator login**
- **Implicit and replay safe secure authentication against password theft**
- **Configurable retry counter**
- **Unique ID**
- **Counterfeit protection by authenticity and integrity check**
- **Fast crypto wipe**
- **CD-ROM Emulation**
- **Private Partition**
- **Hidden Storage**
- **CmReady – Prepared for out-of-the-box use with Wibu-Systems CodeMeter (software protection & license management)**
- Manufactured in a TS 16949 certified factory
- Swissbit Life Time Monitoring (SBLTM) Tool and SDK for SBLTM (on request)

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[1] High Temperature storage without operation reduces the data retention, in operation the data will be refreshed, if data error issues were detected

Swissbit AG
Industriestrasse 4
CH-9552 Bronschhofen
Switzerland

TLP: Swissbit public

www.swissbit.com/contact

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Ordering Information

Product Type	Product Series	Capacity	Part Number
SD	PS-66 DP	16 GBytes	SFSD016GL1PT1MT-I-5E-02P-SW4
SD	PS-66 DP	32 GBytes	SFSD032GL1PT1MT-I-6F-02P-SW4
SD	PS-66 DP	64 GBytes	SFSD064GL1PT1MT-I-7G-02P-SW4

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.

Swissbit AG
Industriestrasse 4
CH-9552 Bronschhofen
Switzerland

TLP: Swissbit public
www.swissbit.com/contact

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