



**THE DATASHEET OF
SFSA008GU4AA2TO-C-GS-22P-STD**



swissbit®

Product Fact Sheet

Industrial mSATA SSD (M0-300 Full Size)

X-66m Series

SATA III - 6.0 Gbit/s, pSLC

everbit™



X-66m Series – Industrial mSATA Solid State Drive, pSLC

Product Summary

- **Capacities:** 4 GBytes, 8 GBytes, 16 GBytes, 30 GBytes, 60 GBytes, 120 GBytes, 240 GBytes
- **Form Factor:** JEDEC MO-300 Full Size mSATA SSD (50.8 mm x 29.85 mm x 3.5 mm)
- **Compliance:** SATA Rev 3.1 – 6 Gbit/s (3 Gbit/s and 1.5 Gbit/s backward compatible)
- **Command Sets:** Supports ATA/ATAPI-8 and ACS-2
- **Performance:**
 - Read Performance: Sequential Read up to 520 MBytes/s, Random Read IOPs up to 80,000
 - Write Performance: Sequential Write up to 450 MBytes/s, Random Write IOPs up to 75,000
- **Operating Temperature Range*:** Commercial: 0 °C to 70 °C; Industrial: -40 °C to 85 °C
- **Storage Temperature Range:** -40 °C to 85 °C
- **Operating Voltage:** 3.3 V ± 5%
- **Power (Max Capacity):** Read (Active): 1.5 W; Write (Active): 2.0 W; Idle: 380 mW; Slumber: 115 mW
- **Data Retention:** 10 Years @ Life Begin / 1 Year @ Life End
- **Endurance in TeraBytes Written (TBW) @ Max Capacity†:** Client > 3610; Embedded > 995; Enterprise > 930
- **Shock/Vibration:** 1,500 g/50 g
- **Hardware BCH Code ECC:** up to 66 bit correction per 1 KByte page
- **Mean Time Between Failure (MTBF):** > 2,000,000 hours
- **Data Reliability:** < 1 non-recoverable error per 10¹⁶ bits read
- **Electromagnetic Compatibility Tests:** Radiated Emission; Radiated Immunity; Electrostatic Discharge

Product Features

- Pseudo SLC Flash with 20,000 Program/Erase Cycles and **everbit™** Reduced Write Amplification
- Dynamic and Static Wear Leveling
- Page Mode Flash Translation Layer (FTL)
- Active and Passive Data Care Management
- Lifetime Enhancements
 - Dynamic Bad Block Remapping
 - Write Amplification Reduction
- On-Board Power Fail Protection
- AHCI, TRIM, and NCQ Support
- ATA Security Feature Set Support
- DEVSLP Compatible
- In-Field Firmware Update
- Enterprise-Grade Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.)
- 30 µinch Gold-Plated Connector (IPC-6012B Class 2 Compliant)
- AES256 Encryption (on request)
- Swissbit Life Time Monitoring (SBLTM) Tool and SDK for SBLTM (on request)

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.

* Adequate airflow is required to ensure the drive temperature, as reported in the S.M.A.R.T. data, does not exceed the specified maximum operating temperature.

† According to JEDEC (JESD471), the time to write the full TBW is 18 months. Higher average daily data volume reduces the specified TBW.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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- ✓ Shortage Management
- ✓ Alternative Solution
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