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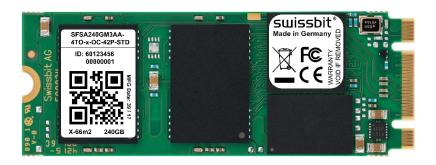
Product Fact Sheet

Industrial M.2 SATA SSD

X-66m2 2260 Series SATA Gen3 - 6.0 Gbit/s, pSLC

Commercial and Industrial Temperature Grade

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Product Fact Sheet X-66m2 2260 Series



Product Summary

- Capacities: 16 GBytes, 30 GBytes, 60 GBytes, 120 GBytes, 240 GBytes
- Form Factor: PCI Express™ M.2 (2260) (60 mm x 22 mm x 3.58 mm)
- Compliance: SATA Gen3 6 Gbit/s (Gen2 3 Gbit/s and Gen1 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 4K up to 80,000 IOPS
 - o Write Performance: Sequential Write up to 450 MBytes/s, Random Write 4K up to 75,000 IOPS
- Operating Temperature Range*:
 - o Commercial: o °C to 70 °C
 - o Industrial: -40 °C to 85 °C
- Storage Temperature Range: -40 °C to 85 °C
- Operating Voltage: 3.3 V ± 5%
- Power (Max): 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 \geq 3,610; Embedded \geq 1,000; Enterprise \geq 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: > 2,000,000 hours
- Data Reliability: < 1 non-recoverable error per 10¹⁶ bits read

Product Features

- Dynamic and Static Wear Leveling
- Data Care Management
 - Active: Adaptive Read Refresh
 - o Passive: Background Media Scan
- Lifetime Enhancements
 - o 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 addressees 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 temperature, as reported in the S.M.A.R.T. data, does not exceed 115°C (industrial temperature drive) and 100°C (commercial temperature drive) respectively.

[†] 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.