

Information Release



Product Announcement – Swissbit X-200 Series SATA 2.5" Solid State Drive

Swissbit AG – September

Bronschhofen, Switzerland – Swissbit unveils the newest addition to their INDUSTRIAL 2.5" Solid State Drive (SSD) line with the introduction of the X-200 Series. This rugged series of SSDs support a Serial ATA (SATA II-3Gbit/s) interface and offers an array of valuable features. Because SSD's have no moving parts, vibration and shock tolerance is extended significantly compared with traditional Hard Disk Drives (HDD's), making them a perfect choice for industrial and mobile applications where durability and reliability are crucial. No moving parts also remove the mechanical latencies normally found in HDD's. This directly translates into faster start-up times and extremely short latency times. Data integrity is assured by use of an approved power-loss system to prevent data corruption during an unexpected loss of power. Operating temperature ranges are extended and mean time between failure (MTBF) is greatly improved when compared with HDD's, resulting in a longer operational life of the Solid State Drive and making SSD's a perfect choice for the most demanding non-volatile, high-reliability applications.



The X-200 series of SSD Flash storage products are offered in densities from 4Gb to 64GB with data transfer rates of 90MB/s for sustained write and 105MB/s for sustained

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read. Like all Swissbit INDUSTRIAL Flash products, the X-200 series uses Single-Level Cell (SLC) Flash technology which provides a minimum of ten times the program / erase endurance over Multi-Level Cell (MLC) Flash components. In addition all Swissbit Solid State Drives come standard with a commercial operating temperature range of 0°C to +70°C $T_{Ambient}$, or an optional industrial temperature version that can operate between -40°C and +85°C $T_{Ambient}$ is also available allowing for further design flexibility in harsh environments.

All X-200 SSD's utilize intelligent wear-leveling which ensures that all dynamic and static data is balanced evenly across the entire Flash storage drive. This approach to wear-leveling will guarantee that maximum write endurance is achieved. Full S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) support is also built into all X-200 Solid State Drives. Using this technology the Flash storage drive can report detailed lifetime status, which allows designers and users to predict imminent system stops to avoid costly downtime. Various lifetime relevant statistics are also available for analysis, such as the usable Flash spare blocks and remaining guaranteed Flash write life. The lifetime statistics information is collected online while operating, and the S.M.A.R.T. status will change to warn when critical values are reached. To add further value, Swissbit has developed an easy to use Windows application to interpret the S.M.A.R.T. lifetime statistical data. This application also enables users to collect data in the background and display historical charts of all relevant values which allows for detailed control over the lifetime statistics and aids

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in early failure prediction. It is also possible for the customer to seamlessly integrate the lifetime monitoring in a custom application. Swissbit has available Windows and Linux software libraries along with an easy to use application programming interface (API).

The Swissbit Engineering Team can customize the X-200 family of drives as it can with all Flash products to meet non-standard customer requirements that cannot use an "off-the-shelf" solution. Customization options can include project specific labeling, content preload, ID string changes, modified capacities, and/or firmware adjustments. All Swissbit Flash and DRAM memory products are built to the highest quality standards / controls and are RoHS / REACH compliant.

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About Swissbit

Swissbit is the largest DRAM memory module and Flash storage device manufacturer in Europe. Created from a management buyout of the Siemens HL Business Unit in 2001, Swissbit boasts over 19 years of combined knowledge and experience in the memory industry. With facilities in Switzerland, Germany, Japan, and the United States, Swissbit is able to support customers on a global scale. Our commitment to high quality, reliability, exceptional customer service, and competitive pricing enables our customers and partners to enjoy a reliable source of supply and product commitment for their past, current, and future memory requirements. Swissbit offers SWISSMEMORY™ INDUSTRIAL DRAM memory modules in all popular technologies including EDO/FPM, SDRAM, DDR, DDR2, and DDR3. In addition, Swissbit produces the SWISSMEMORY™ INDUSTRIAL Flash storage product lines consisting of CompactFlash®, SD, MMC, USB, PATA, SATA, and CFast™ interfaces. Most SWISSMEMORY™ INDUSTRIAL products are available in commercial (0°C to +70°C T_{Ambient}) and industrial (-40°C to +85°C T_{Ambient}) operating temperature grades. Additional company and product information is available on the company's website at www.swissbit.com.

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