

Press release

Swissbit presents new X-200s Slim-SATA (MO-297) and X-200m Mini-SATA (MO-300) SSDs as extension of the successful X-200 Solid State Drives series (SSD)

Bronschhofen, Switzerland – November 9, 2010 - Swissbit unveils the newest additions to their INDUSTRIAL 2.5" Solid State Drive (SSD) line with the introduction of the X-200s and X-200m Series: The **X-200s Slim-SATA (MO-297)** Solid State Drives has a slim form factor design (54mm x 39mm) and utilizes a standard SATA connector. The **X-200m mSATA (MO-300)** Solid State Drive utilizes the PCI Express Mini Card (PCI-s16 1.1) form factor (max. 50.95mm x 30mm) with 52-pin gold fingers and SATA II electrical interface. Comparing the board area usage to the typical 2.5" SATA SSDs (69.85mm x 100mm), the X-200m is downsized to 22% and X-200s to 30% of that size.



X-200s



X-200m

Both SSD Flash storage series X-200m and X-200s are offered in densities from 4Gb to 32GB with data transfer rates of 90MB/s for sustained write and 105MB/s for sustained read. The result is a no-compromise solid state storage solution providing mobile systems designers with a true plug-n-play storage device allowing for short design cycles and fast time to market and is ideal for telecommunications, gaming, embedded server & storage system, field computing and defense & aerospace applications.

Because SSDs have no moving parts, vibration and shock tolerance is extended significantly compared with traditional Hard Disk Drives (HDDs), making them a perfect choice for telecommunication, gaming, embedded server & storage system, field computing, defense & aerospace application where durability and reliability are crucial. No moving parts also remove the mechanical latencies normally found in HDDs. 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 HDDs, 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.

Like all Swissbit INDUSTRIAL Flash products, the X-200M and X-200S 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-200M and S-200S SSDs 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-200M and X-200S 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 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 has today facilities in Switzerland, Germany, Japan, and the United States. Swissbit offers industrial DRAM memory modules in all popular technologies and Flash industrial storage product families including CF, SD, USB, PATA and SATA interfaces. All Swissbit products meet highest quality criteria and RoHS and REACH directives. The target markets for the Swissbit products are industrial electronics, automotive, railway technology, wired telecommunications, medical electronics as well as aerospace/defense. Additional company and product information is available at www.swissbit.com.

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