

PRESS RELEASE
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Low Power Industrial SSD Controller in Mass Production

Hyperstone's X1 SSD flash memory controller provides lowest power consumption and offers superb reliability by enabling 3D NAND in SLC mode.

Konstanz, Germany 14. 11. 2019 - The X1 has been rigorously tested in sudden power fail situations and for reliability, offering superb FIT rates. The industrial flash controller with hyMap® firmware, hyReliability™ features and full SATA compliance is now in mass production and therefore available in large quantities. In addition to comprehensive NAND flash support for industrial applications, Hyperstone provides extensive health monitoring tools enabling advanced system level qualifications.

The X1 SATA III SSD controller together with firmware and reference designs enables storage applications for industrial and embedded markets. This allows them to benefit from the most energy-efficient and reliable SSD solution possible. The powerful and efficient proprietary dual-core processor with advanced security features ensures bulletproof operation. Hyperstone's eXtended Endurance (FlashXE®) feature, SRAM ECC and end-to-end data path protection are vital in guaranteeing an industrially stable system with today's flashes. In addition, the X1 features extremely low power consumption and the silicon is designed for extreme temperature environments.

Achieving the demanding requirements of the industrial market is cemented with hyReliability™ flash management, which features outstanding wear leveling, read-disturb management, data refresh and best-in-class power-fail robustness. Likewise, advanced protection against radiation and soft errors, SRAM ECC and a low-alpha package ensure operation even under the most demanding conditions.

"Even the most reliable components, if used 24 hours, 365 days and for 10 years, might have to be serviced at some point," said Sandro-Diego Wölfle, Product Manager of Hyperstone. "We provide exhaustive health-monitoring tools and data exceeding the standard S.M.A.R.T. scope for predictive maintenance as well as for thorough qualification and life-time estimation before deploying storage media to the field."



About Hyperstone

Hyperstone is a fabless semiconductor company based in Konstanz, Germany with a strong focus on world class flash memory controllers for industrial embedded markets. Its products set the standard for high-reliability flash management providing confidence for NAND flash performance in mission critical situations. Hyperstone's products include microcontrollers for various host interfaces and performance points, e.g. SATA, USB, CF/PATA, SD/microSD and eMMC. Together with the hyMap® flash translation layer (FTL), the hyReliability™ feature set, reference designs, health monitoring, maintenance and production tools Hyperstone offers a turnkey solution for storage media integrators. Hyperstone is a member of the CML Microsystems Plc group, traded on the London Stock Exchange.

To learn more about Hyperstone, please visit www.hyperstone.com

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