

PRESS RELEASE
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High reliability CompactFlash controller from Hyperstone adds 3D Flash memory support

New F9 market-leading CF controller offers doubled performance for high-end CompactFlash cards and embedded IDE disk-on-modules

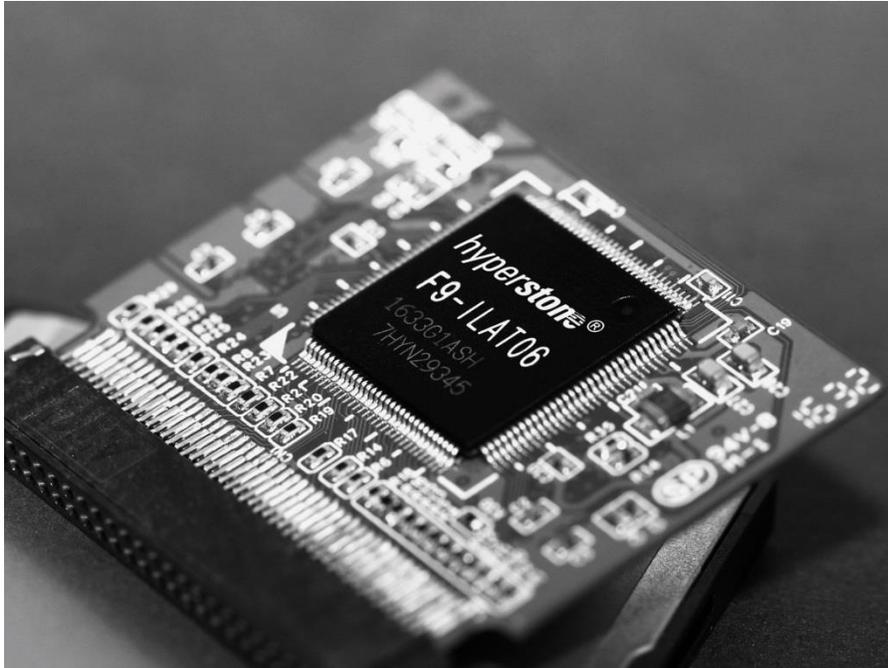
Konstanz, Germany, August 7, 2017 – Today, Hyperstone introduces their new F9 – CompactFlash™ memory controller. The F9 is targeting industrial and high-end CompactFlash cards and embedded IDE disk-on-modules. In conjunction with Hyperstone’s hyMap® Flash translation layer (FTL) and hyReliability™ firmware features, the F9 provides enhanced endurance and data retention management, as well as rigorous power fail-safe features.

Hyperstone’s F9 controller delivers a sequential read speed of over 120 MB/s and can write at up to 120 MB/s, supporting up to 4,000 random 4k write IOPS. It is compatible with CF 6.1 and ATA-7 standards with speed modes up to UDMA 6, supporting next-generation SLC, MLC and 3D NAND Flashes. The F9 features Hyperstone’s hyMap sub-page-based Flash translation layer (FTL), its hyReliability Flash Memory Management and firmware architecture, and Data Refresh to maximize data retention. The device also provides S.M.A.R.T. health monitoring and lifetime estimation tools, and a secure boot feature for firmware security. An Ultra-Low-Alpha package compound reduces soft errors caused by alpha particle radiation.

Hyperstone’s DRAM-less paged-based mapping technology, hyMap, – already widely successful in SD and USB applications of Hyperstone S8, U8, and U9 – has now been applied to CF / IDE applications. “The hyMap FTL and hyReliability feature-set are now available for CF,” said Axel Mehnert, VP Marketing of Hyperstone. “Furthermore, the F9 is designed to deliver 120 MB/s sequential write and read performance without compromising reliability.”

Only through a page-based mapping FTL can 3D, MLC, or any Flash with larger block sizes be used in a reliable manner. Users can now feel at ease in staying with their existing CF/IDE products. “Hyperstone is dedicated to supporting CompactFlash and PATA solutions by offering up-to-date Flash support,” said Dr. Jan Peter Berns, Managing Director of Hyperstone, “It is our mission to support our customers with highly reliable storage solutions for the longer-term and also for interfaces that have been in the market for decades.”

The F9 will initially be available in 144-ball TFBGA (9x9x1.2 mm) and 128 pin TQFP (14x14x1.0 mm) packages, qualified for the industrial temperature range (-40 to +85 °C). Mass-production samples and released firmware are available now.



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. Flash controller firmware is supplied complementary to the controllers and customized for each flash and application. 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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