

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.

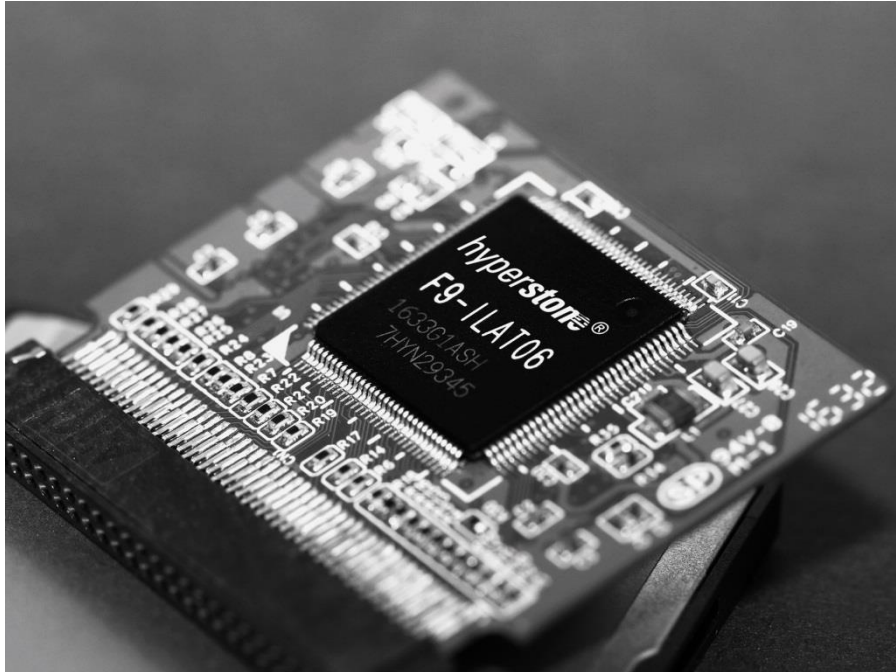
Product Highlights:

- Over 120 MB/s sequential read
- Up to 120 MB/s sequential write
- Up to 4,000 random 4K write IOPS
- Compatible with CF 6.1 and ATA-7 standards with speed modes supporting up to UDMA 6
- Support for next generation SLC, MLC and 3D NAND Flashes
- hyMap® sub-page-based Flash translation layer (FTL)
- hyReliability™ Flash Memory Management and firmware architecture
- Data Refresh to maximize data retention
- S.M.A.R.T. health monitoring and lifetime estimation tools
- Secure boot feature for firmware security
- Ultra-Low-Alpha package compound reducing Soft Errors caused by alpha particles

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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