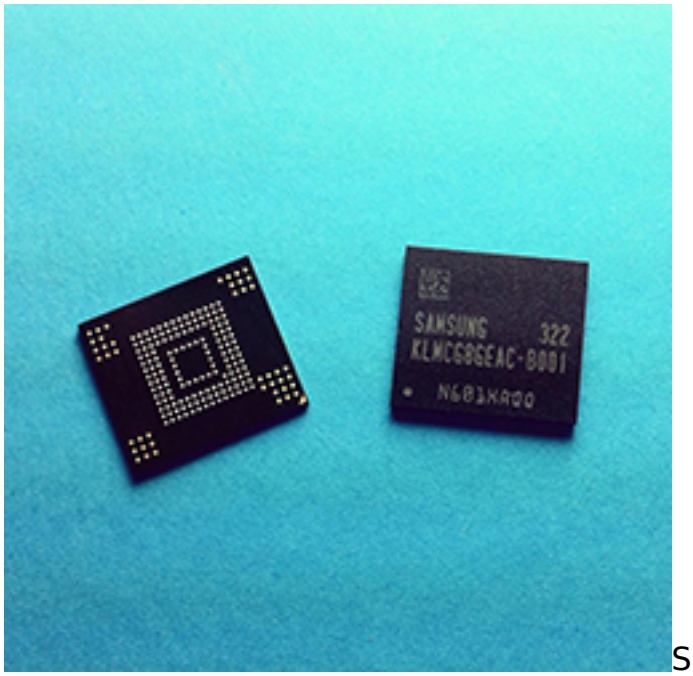
Embedded memory family is presented as industry’s fastest



Samsung Electronics Co., Ltd., is mass producing the world’s fastest embedded memory – asserted to be the industry’s first eMMC 5.0 devices – in 16 gigabyte (GB), 32 GB and 64 GB densities for next-generation smartphones and tablets. Featuring an interface speed of 400 megabytes per second (MB/s), the lightning-fast eMMC PRO memory provides exceptionally fast application booting and loading. According to the company, the chips will enable much faster multi-tasking, web-browsing, application downloading and file transfers, as well as high-definition video capture and playback, and are highly responsive to running large-file gaming and productivity applications. These memory chips, being produced in 16, 32 and 64GB versions, are based on Samsung 64 Gb 10-nm class* NAND flash and support the eMMC version 5.0 standard now nearing completion at JEDEC – the largest standards-setting body in the microelectronics industry. In 32 GB and densities, the new memory solution has a random read speed of 7000 IOPS (inputs/outputs per second), and a random write speed of 7000 IOPS (in cache on mode, without host overhead). In addition, these chips read sequentially at /s and write sequentially at 90 MB/s. As the fastest eMMC devices at more than 10 times the speed of a class 10 external memory card (which reads at 24 MB/s and writes at 12 MB/s), according to the company, the new mobile memory greatly enhances the movement from one application to another in multitasking activities. Samsung’s 16GB, 32GB and 64GB eMMC 5.0 devices come in 11.5-mm x 13-mm packages.

Samsung Electronics Co., Ltd., www.samsung.com [1]

Source URL (retrieved on *08/30/2014 - 11:43am*):

http://www.ecnmag.com/product-releases/2013/07/embedded-memory-family-presented-industry%E2%80%99s-fastest

Links:
[1] http://www.samsung.com