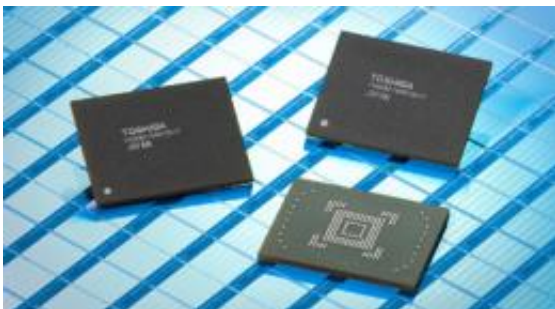


# Toshiba Launches 128GB Embedded NAND Flash Memory Module

June 17 2010, by John Messina

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Toshiba Launches Industry's Largest Embedded NAND Flash Memory Modules. e •MMCTM Compliant Embedded Memories Combine up to 128GB NAND and a Controller in a Single Package. Credit: Toshiba Corp.

(PhysOrg.com) -- Toshiba announced today the first ever 128GB embedded flash memory chip using 32 nanometer processes. The entire design is less than 0.06 inches thick.

The new 128GB embedded device integrates sixteen 64Gbit (equal to 8GB) [NAND](#) chips fabricated using Toshiba's 32nm process technology and a dedicated controller into a small package measuring only 17 x 22 x 1.4mm.

Using this new memory module in a system would yield recording up to 2,222 hours of music at a 128Kbps bit rate, 16.6 hours of full spec HD video and 38.4 hours of standard definition video. HD and SD video are

calculated at average bit rates of 17Mbps and 7Mbps, respectively.

No customers have been announced yet however Apple would seem to be a likely candidate since they are one of the largest customers for [flash memory](#) and occasionally will use Toshiba memory for their iPhones, iPods and Macs.

[Toshiba](#) should have test samples of the 128GB chip available by September, with mass production starting in the fourth quarter of this year. The module is sealed in a small FBGA package only 17 x 22 x 1.4mm and has a signal layout compliant with the JEDEC e•MMCTM V4.4.

**More information:**

[www.toshiba.co.jp/about/press/2010\\_06/pr1701.htm](http://www.toshiba.co.jp/about/press/2010_06/pr1701.htm)

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