

Elpida Develops Smallest 2-Gigabit DDR2 Mobile RAM

July 30 2010

Elpida Memory, Japan's leading global supplier of Dynamic Random Access Memory (DRAM), today announced that it had developed a 2-gigabit DDR2 Mobile RAM, the DRAM industry's smallest LPDDR2 chip. The new DDR2 is expected to become the main product manufactured by the 40nm process line at Elpida's Hiroshima Plant (the 40nm line is currently undergoing a capacity expansion).

The new 2-gigabit DDR2 Mobile RAM was developed to target the smart phone and tablet PC markets. In addition to featuring low operating voltage of 1.2V it achieves a 1066Mbps high-speed data transfer rate and can reach 8.5GB/second for a 64-bit system configuration. Because it uses roughly 30% less operating current compared with Elpida's existing 50nm products the new Mobile RAM is an eco-friendly DRAM that contributes to extending the operating time of mobile devices.

Elpida plans to ship the new DDR2 as a bare chip for MCP and to configure it for PoP and FBGA packages. The company's FBGA packages fully leverage die-stacking technology to provide an extensive line-up of 2-gigabit to 8-gigabit products that can meet a variety of customer needs.

Sample shipments of the new 2-gigabit DDR2 [Mobile RAM](#) will begin in August and [mass production](#) is expected to start in September of this year.

Elpida, a leading provider of DRAM for mobile devices, has advanced technology that supports development of the next generation of [smart phones](#) and Tablet PCs.

Provided by Elpida

Citation: Elpida Develops Smallest 2-Gigabit DDR2 Mobile RAM (2010, July 30) retrieved 25 May 2024 from <https://phys.org/news/2010-07-elpida-smallest-gigabit-ddr2-mobile.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.