

Elpida Starts Mass Production of 512 Megabit Mobile RAM Devices with Improved Power Consumption to Cellular Products

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New Devices Combine Two 256 Megabit Mobile RAM Devices in a Multi-Chip Package

[Elpida Memory, Inc. \(Elpida\)](#), Japan's leading global supplier of Dynamic Random Access Memory (DRAM), today announced the availability of its **high-performance 512 Megabit Mobile RAM devices** designed to provide high-density and low-power consumption to cellular applications. The 512 Megabit density is achieved by utilizing two 256 Megabit Mobile RAM devices in a Multi-Chip Package (MCP).

"As cellular applications become more advanced, the need for high-density DRAM with reduced power consumption becomes more critical," said Jun Kitano, director of Technical Marketing for Elpida Memory (USA). "Elpida's 512 Megabit Mobile RAM devices offer a low-power environment without sacrificing performance."

512 Megabit Mobile RAM Features

Elpida's new 512 Megabit single data rate (SDR) Mobile RAM devices (Part number: EDL5132CBMA) are organized as 4M words x 32-bits x 4 banks and transfer data at a rate of 400 Megabytes per second. The devices are available in small 9 millimeter (mm) x 13 mm, 90-ball FBGA packages allowing for reduced board space. The 512 Megabit devices feature 1.8 volt operation thus providing low-power

consumption in cellular applications.

Elpida's Mobile RAM devices also offer advanced features such as Auto Temperature Compensated Self-Refresh (TCSR) which utilizes a temperature sensor built on the die to automatically change the refresh period eliminating the need for external operation. The devices also support deep power-down mode to further reduce power consumption and extend battery life.

Source: [Elpida](#)

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