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PRODUCT CHANGE NOTIFICATION

PCN: PCN104965

Date: July 15, 2010

Subject: Process Technology Transition from RAM28 (0.65 micron) to RAM42 (0.35 micron) for Select Dual Port Static RAM and First In First Out (FIFO) Memory Products.

To: ROLAND HUTTER
MSC
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Description of Change:

Cypress is announcing a process technology transition on select RAM28 (0.65 um) Specialty memory products to RAM 42 (0.35um):

Product	Process Tech (Old)	Process Tech (New)
Dual Port	RAM28 (0.65 um)	RAM42HDNHA (0.35 um)
FIFO	RAM28 (0.65 um)	RAM42DNHA (0.35 um)

RAM42HDNHA / RAM42DNHA process technology parts are qualified and are in production at the Cypress Minnesota wafer fab facility. RAM42 products are package pin compatible to the RAM28.

The RAM42 Dual Port products are fully form, fit and function compatible with RAM28 replacement parts for the 100 pin TQFP package. The PLCC packages for these parts are being End of Life.

See below two functional differences between the RAM28 and RAM42 FIFO products:

1. For the same operating Voltage, 'Vcc' (3.0V-3.6V), RAM28 inputs has 5V tolerance, whereas RAM42 inputs have a tolerance of up to Vcc.
2. Output status flag (EF#, FF#, PAE#,PAF# and FF#) logic in R42 points to higher depth when compared to R28. In case user design is sensitive to FIFO depth, the user needs to reconfigure flag logic appropriately while transitioning from R28.

Please see attached file, 'Electrical Characteristics Changes' for detailed electrical characteristics changes for both Dual port and FIFO Memory. Datasheets of RAM42 parts are available on Cypress Website, www.cypress.com and are also enclosed with this notification.

Benefit of Change:

Cypress is committed to provide long term support to Dual Port and FIFO memory products customers. R28 products were manufactured at the Cypress Texas wafer fab facility which shutdown in Dec 2008. Cypress had built sufficient R28 inventory to support customers till 2012. The migration to RAM42 technology which is qualified at Cypress Fab at Minnesota is being done to ensure consistent supply and long term support to our customers. In addition, FIFO product in RAM42 provides higher density solutions for customer applications.

Part Numbers Affected:
Affected Parts: 20

Item	Affected Part Numbers (R28)	Description	Drop In Replacement Part Number (R42)	Last Time Buy (LTB) Date	Last Time Ship (LTS) Date
1	CY7C025-25AXC	Dual Port	CY7C025E-25AXC	9-Feb-11	8-Aug-11
2	CY7C025-25AXCT	Dual Port	CY7C025E-25AXCT	9-Feb-11	8-Aug-11
3	CY7C025-25AXI	Dual Port	CY7C025E-25AXI	9-Feb-11	8-Aug-11
4	CY7C025-55AXC	Dual Port	CY7C025E-55AXC	9-Feb-11	8-Aug-11
5	CY7C024-25AXC	Dual Port	CY7C024E-25AXC	9-Feb-11	8-Aug-11
6	CY7C024-25AXCT	Dual Port	CY7C024E-25AXCT	9-Feb-11	8-Aug-11
7	CY7C024-25AXI	Dual Port	CY7C024E-25AXI	9-Feb-11	8-Aug-11
8	CY7C024-55AXC	Dual Port	CY7C024E-55AXC	9-Feb-11	8-Aug-11
9	CY7C024-55AXCT	Dual Port	CY7C024E-55AXCT	9-Feb-11	8-Aug-11
10	CY7C024-15AXC	Dual Port	CY7C024E-15AXC	9-Feb-11	8-Aug-11
11	CY7C024-15AXCT	Dual Port	CY7C024E-15AXCT	9-Feb-11	8-Aug-11
12	CY7C0241-25AXC	Dual Port	CY7C0241E-25AXC	9-Feb-11	8-Aug-11
13	CY7C0241-25AXCT	Dual Port	CY7C0241E-25AXCT	9-Feb-11	8-Aug-11
14	CY7C0241-15AXI	Dual Port	CY7C0241E-15AXI	9-Feb-11	8-Aug-11
15	CY7C0251-15AXC	Dual Port	CY7C0251E-15AXC	9-Feb-11	8-Aug-11
16	CY7C4215V-15ASXC	FIFO	CY7C4255V-15ASXC	9-Feb-11	8-Aug-11
17	CY7C4225V-15ASXC	FIFO	CY7C4255V-15ASXC	9-Feb-11	8-Aug-11
18	CY7C4225V-15ASXCT	FIFO	CY7C4255V-15ASXCT	9-Feb-11	8-Aug-11
19	CY7C4235V-15ASXC	FIFO	CY7C4255V-15ASXC	9-Feb-11	8-Aug-11
20	CY7C4245V-15ASXC	FIFO	CY7C4255V-15ASXC	9-Feb-11	8-Aug-11

Cypress is also using this opportunity to announce the End-of-life (EOL) of the following (R28) Dual Port SRAMs in PLCC package. R42 based replacements are shown below as a Next best Alternative. The Next Best Alternative products are offered only in the 100-TQFP package.

Item	Affected Part Numbers (R28)	Description	Next Best Alternative Part Number (R42)	Last Time Buy (LTB) Date	Last Time Ship (LTS) Date
1	CY7C024-25JXI	Dual Port	CY7C024E-25AXI	9-Feb-11	8-Aug-11
2	CY7C024-55JXC	Dual Port	CY7C024E-55AXC	9-Feb-11	8-Aug-11
3	CY7C024-55JXCT	Dual Port	CY7C024E-55AXCT	9-Feb-11	8-Aug-11
4	CY7C024A-25JXC	Dual Port	CY7C024E-25AXC	9-Feb-11	8-Aug-11
5	CY7C025-25JXI	Dual Port	CY7C025E-25AXI	9-Feb-11	8-Aug-11

Drop-in Replacement:

A product that is pin-to-pin and function/feature compatible with the obsolete product.

Next Best Alternative:

A closest substitute product (i.e., no drop-in replacement available) that may have certain

functions and/or features that are identical to the obsolete product. In some cases, the closest substitute may be the obsolete product offered in a different package configuration. Note, board re-design may be required.

Customer Part Numbers Affected:

Affected Parts: N/A

Qualification Status:

Dual Port SRAM: The RAM42HDNHA process technology has been qualified through a series of tests identified in Qualification Test Plan # 102101. This QTP report can be found attached to this PCN or by visiting www.cypress.com, typing the QTP number in the search window.

FIFO: The RAM42DNHA process technology has been qualified through a series of tests identified in Qualification Test Plan QTP#97483. This QTP report can be found attached to this PCN or by visiting www.cypress.com, typing the QTP number in the search window. In addition, recent reliability monitoring data associated with this product and package can be found attached to this PCN.

Sample Status:

Please contact your Sales Representative as soon as possible, and no later than 30 days from this notification to place any sample requests.

Approximate Implementation Date:

This change is effective immediately from the date of this notification. Please note Last Time Buy (LTB) and Last Time Ship (LTS) dates provided in the table above. The LTB date denotes the date on which order entry closes; orders may be placed until the close of business (5:00 p.m. US Pacific Time) on this date. LTS date denotes the date on which shipment of orders ceases.

Anticipated Impact:

Products manufactured are completely compatible with existing product from a pin, package and quality performance perspective. Please see attached file, 'Electrical Characteristics Changes' for detailed electrical characteristics changes.

Method of Identification:

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

No response is required. Customers are encouraged to take note of the LTB and LTS dates indicated in the table above, and plan to convert to the R42 version prior to the LTB date of the RAM28 version.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_adm@cypress.com.

Sincerely,

Cypress PCN Administration