

FINAL PRODUCT CHANGE NOTIFICATION**PCN:** PCN040221**DATE:** December 10, 2004

Subject: SRAM, CY7C1370V25, CY7C1371C, CY7C1372CV25, CY7C1373C, CY7C1380C, CY7C1381C, CY7C1382C, CY7C1383C, CY7C1386C, CY7C1387C - 18M Sync Process Technology Changed to RAM9T-3, Pb-Free Package Conversion on 100 Pin TQFP, End of Life (EOL) on RAM7FD-3R technology.

To:**Description of Change:****Process:**

The RAM7 (C rev) part numbers listed below are being EOL'd and converted from RAM7FD-3R, 0.15u process to a R9T-3 90 nanometer process within Cypress' Bloomington, MN Fab 4.

Package:

All part numbers below in the 100 Pin TQFP packages will change from SnPb leadframes to (Ni-Pd-Au) Pb-Free lead frames (ROHS - Restriction of Hazardous Substances). The new Pb-Free lead frames will be 100% compatible with industry standard reflow temperatures (220 C /235 C/260 C).

Power Specifications:

All Pipelined parts (CY7C1370DV25, CY7C1372DV25, CY7C1380D, CY7C1382D, CY7C1386D, CY7C1387D) offered @ 166MHz will change as follows:

ISB1 will change from 90mA to 140mA max

ISB3 will change from 85mA to 125mA max

All Pipelined parts (CY7C1370DV25, CY7C1372DV25, CY7C1380D, CY7C1382D, CY7C1386D, CY7C1387D) offered @ 200MHz will change as follows:

ISB1 will change from 100mA to 150mA max

ISB3 will change from 95mA to 130mA max

All Flow-Through parts (CY7C1371D, CY7C1373D, CY7C1381D, CY7C1383D) offered @ 100MHz will change as follows:

ISB1 will change from 100mA to 120mA max

ISB3 will change from 95mA to 110mA max

All Flow-Through parts (CY7C1371D, CY7C1373D, CY7C1381D, CY7C1383D) offered @ 133MHz will change as follows:

ISB1 will change from 120mA to 140mA max

ISB3 will change from 105A to 130mA max

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Datasheets and models for both the old and the new part numbers can be downloaded from the Cypress Website (www.cypress.com).

The majority of existing part numbers will be offered in Ram 9; however, there will be some speed bin and temperature range consolidation. (Please refer to attached list for recommended replacements)

Benefit of Change: The simultaneous technology and package conversion will simplify Customer Qualification Processes. These changes will result in Pb-Free (ROHS compliant) packaging, shorter lead times, competitive pricing, and improved availability.

Part Numbers Affected:
Affected Parts: 52

Affected Part	Description
CY7C1383C-100ACT	CY7C1383D-100AXCT (Replacement Part Number)
CY7C1383C-117AC	CY7C1383D-133AXC (Replacement Part Number)
CY7C1383C-117ACT	CY7C1383D-133AXCT (Replacement Part Number)
CY7C1371C-100AC	CY7C1371D-100AXC (Replacement Part Number)
CY7C1371C-100ACT	CY7C1371D-100AXCT (Replacement Part Number)
CY7C1380C-133ACT	CY7C1380D-133AXCT (Replacement Part Number)
CY7C1371C-117AC	CY7C1371D-133AXC (Replacement Part Number)
CY7C1380C-167AC	CY7C1380D-167AXC (Replacement Part Number)
CY7C1371C-117ACT	CY7C1371D-133AXCT (Replacement Part Number)
CY7C1380C-167ACT	CY7C1380D-167AXCT (Replacement Part Number)
CY7C1370CV25-167AXCT	CY7C1370DV25-167AXCT (Replacement Part Number)
CY7C1371C-133AC	CY7C1371D-133AXC (Replacement Part Number)
CY7C1380C-167AI	CY7C1380D-167AXI (Replacement Part Number)
CY7C1380C-167AIT	CY7C1380D-167AXIT (Replacement Part Number)
CY7C1383C-133AC	CY7C1383D-133AXC (Replacement Part Number)
CY7C1383C-133ACT	CY7C1383D-133AXCT (Replacement Part Number)
CY7C1382C-167AC	CY7C1382D-167AXC (Replacement Part Number)
CY7C1387C-167AC	CY7C1387D-167AXC (Replacement part Number)
CY7C1382C-167ACT	CY7C1382D-167AXCT (Replacement Part Number)
CY7C1387C-167ACT	CY7C1387D-167AXC (Replacement Part Number)
CY7C1382C-167AI	CY7C1382D-167AXI (Replacement Part Number)
CY7C1370CV25-200AC	CY7C1370DV25-200AXC (Replacement Part Number)
CY7C1371C-133ACT	CY7C1371D-133AXCT (Replacement Part Number)
CY7C1370CV25-200ACT	CY7C1370DV25-200AXCT (Replacement Part Number)
CY7C1370CV25-167AC	CY7C1370DV25-167AXC (Replacement Part Number)
CY7C1380C-200AC	CY7C1380D-200AXC (Replacement Part Number)

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CY7C1370CV25-167ACT	CY7C1370DV25-167AXCT (Replacement Part Number)
CY7C1373C-100AC	CY7C1373D-100AXC (Replacement Part Number)
CY7C1370CV25-167AXC	CY7C1370DV25-167AXC (Replacement Part Number)
CY7C1373C-100ACT	CY7C1373D-100AXCT (Replacement Part Number)
CY7C1373C-117AC	CY7C1373D-133AXC (Replacement Part Number)
CY7C1373C-133AC	CY7C1373D-133AXC (Replacement Part Number)
CY7C1382C-167AIT	CY7C1382D-167AXIT (Replacement Part Number)
CY7C1382C-200AC	CY7C1382D-200AXC (Replacement Part Number)
CY7C1382C-200ACT	CY7C1382D-200AXCT (Replacement Part Number)
CY7C1386C-167AC	CY7C1386D-167AXC (Replacement Part Number)
CY7C1381C-100AC	CY7C1381D-100AXC (Replacement Part Number)
CY7C1386C-167ACT	CY7C1386D-167AXCT (Replacement Part Number)
CY7C1381C-100ACT	CY7C1381D-100AXCT (Replacement Part Number)
CY7C1386C-200AC	CY7C1386D-200AXC (Replacement Part Number)
CY7C1372CV25-167AC	CY7C1372DV25-167AXC (Replacement Part Number)
CY7C1372CV25-167ACT	CY7C1372DV25-167AXCT (Replacement Part Number)
CY7C1381C-117AC	CY7C1381D-133AXC (Replacement Part Number)
CY7C1372CV25-167AXC	CY7C1372DV25-167AXC (Replacement Part Number)
CY7C1381C-117ACT	CY7C1381D-133AXCT (Replacement Part Number)
CY7C1372CV25-167AXCT	CY7C1372DV25-167AXCT (Replacement Part Number)
CY7C1381C-133AC	CY7C1381D-133AXC (Replacement Part Number)
CY7C1381C-133ACT	CY7C1381D-133AXCT (Replacement Part Number)
CY7C1372CV25-200AC	CY7C1372DV25-200AXC (Replacement Part Number)
CY7C1380C-133AC	CY7C1380D-167AXC (Replacement Part Number)
CY7C1386C-200ACT	CY7C1386D-200AXCT (Replacement Part Number)
CY7C1383C-100AC	CY7C1383D-100AXC (Replacement Part Number)

Customer Part Numbers Affected:

Qualification Status:

Qualification report QTP#033302 is attached and is in reference to the technology conversion.

Sample Status:

Samples for the new parts are available now (part numbers attached). Please contact your local sales office to request samples.

Approximate Implementation Date:

December 10, 2004 for the process change and package conversion. Please refer to the attached list for Last Time Order Entry (03/31/2005), and Last Time Ship Dates

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(06/30/2005) for the Ram 7 'C' rev products.

Anticipated Impact:**Method Of Identification:**

The base marketing part number will be revised to contain the letter 'D' after the part number to designate the die revision. For all 100 pin TQFP packages, the package code in the marketing part number will be revised to contain the letter 'X' to designate Pb-Free. E.G. CY7C1370CV25-200AC -> CY7C1370DV25-200AXC E.G. CY7C1380C-200AI -> CY7C1380D-200AXI

Response Required:

Your company does not require written approval.

For additional information regarding this change, contact your local sales representative or by E-mail to pcn_adm@cypress.com

Sincerely,

Richard Oshiro
PCN Process Manager