

FINAL PRODUCT CHANGE NOTIFICATION**PCN:** PCN040167**DATE:** October 29, 2004**Subject:** SUBJECT: SRAM, 7C1347F, 7C1351F- 4M 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 (F 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 (220C / 235C / 260C).

Timing Specifications:

All Standard Sync Pipelined parts (7C1347G) offered @100, 133 and 167MHz will change the Data Output Hold (tDOH) from 2.0ns to 1.5ns. This change is aligned with standard industry specifications for this parameter. All other parameters have stayed the same.

All parameters will stay the same for the 7C1351G.

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 Ram9; 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) packaging, shorter lead times, competitive pricing, and improved availability.

Part Numbers Affected:**Affected Parts: 08**

Affected Part	Description
CY7C1347F-133AC	CY7C1347G-133AXC

FINAL PRODUCT CHANGE NOTIFICATION

CY7C1351F-117AC	CY7C1351G-117AXC
CY7C1347F-133ACT	CY7C1347G-133AXCT
CY7C1351F-117ACT	CY7C1351G-117AXCT
CY7C1347F-166AC	CY7C1347G-166AXC
CY7C1347F-166ACT	CY7C1347G-166AXCT
CY7C1351F-100AC	CY7C1351G-100AXC
CY7C1351F-100ACT	CY7C1351G-100AXCT

Customer Part Numbers Affected:**Qualification Status:**

Qualification report QTP#041608 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:

October 25, 2004 for the process change and package conversion. Please refer to attached list for Last Time Order Entry, and Last Time Ship Dates for the Ram 7 'F' rev products.

Anticipated Impact:**Method Of Identification:**

The base marketing part number will be revised to contain the letter 'G' 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. CY7C1347F-166AC -> CY7C1347G-166AXC E.G. CY7C1351F-117AC -> CY7C1351G-117AXC

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



FINAL PRODUCT CHANGE NOTIFICATION

Sincerely,

Richard Oshiro
PCN Process Manager