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PRODUCT CHANGE NOTIFICATION

PCN: PCN161201A

Date: April 01, 2016

Subject: 18Mb Standard Sync and NoBL SRAM Products: Technology Transition from 90nm to 65nm Process

To: JAMIE PEDERSON
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Change Type: Major

Description of Change:

The purpose of this addendum is to correct the Last Time Buy (LTB) and Last Time Ship (LTS) headers in the 'Affected Part List' file. Please refer to the attached 'Affected Parts List' file for the corrected headers.

Cypress is pleased to announce the transition of the 18Mb Standard and NoBL series of Synchronous SRAM products from 90nm to the 65nm process technology node at our partner fab United Micro Electronics Corporation (UMC) in Tainan, Taiwan. This change is consistent with Cypress's history of line-width reduction.

Cypress will be discontinuing the existing 90nm products. The new 65nm products are drop-in replacement parts and form, fit, and function compatible with the 90nm products. The list of affected part numbers, replacement part numbers, Next best alternatives, Last Time Buy (LTB) and Last Time Ship (LTS) dates are provided in the attached 'Affected Parts List' file.

Benefit of Change:

The 65nm products offer higher reliability and lower active and standby currents. Refer to the attached pdf file for the basic differences between the 90nm and 65nm products.

Affected Part Numbers: 103

Affected Parts: Please refer to attached 'Affected Parts List' file.

Qualification Status:

The 65nm products have been qualified through a series of tests identified in the Qualification Test Plan (QTP) Report 152402. The qualification report can be found in the attachment to this notification or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Sample Status:

Qualification samples are not built ahead of time for all part numbers affected by this change. Please refer to attached 'Affected Parts List' file for the list of older technology parts and their corresponding 65-nanometer replacement parts. If you require qualification samples, please contact your sales representative as soon as possible, but within 30 days of the date of this PCN.

Approximate Implementation Date:

This change will be implemented from the date of this notification. The 90nm 18M Standard Sync and NoBL products listed in attached file are subject to End of Life (EOL) with the Last Time Buy (LTB) and Last Time Ship (LTS) dates.

Anticipated Impact:

The 65nm products are completely compatible with existing product from a functional, parametric, quality and reliability performance perspective, however the customer will need to update their ordering process with the new 65nm part numbers as found in the attached spreadsheet.

Cypress also recommends that customers take this opportunity to review these changes against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

Method of Identification:

65nm ordering part numbers will include a 'KV' next to the base part number. For example, the 65nm replacement of the 90nm part CY7C1370D-167AXI will be the CY7C1370KV33-167AXI. Please refer to www.cypress.com/products for datasheets and a complete listing of the 65nm 18Mb Standard Sync and NoBL products.

Cypress maintains traceability of product to the 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 attachment, and plan to convert to the 65nm products prior to the obsolescence of the 90nm products.

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

Item	Marketing Part Number	Last Time Buy Date	Last Time Ship Date	Replacement Part Number (65nm)	Next Best Alternative (65nm)	Next Best Alternative Justification
1	CY7C1370D-167AXC	10/5/2016	4/3/2017	CY7C1370KV33-167AXC		
2	CY7C1370D-167AXCT	10/5/2016	4/3/2017	CY7C1370KV33-167AXCT		
3	CY7C1370D-167AXI	10/5/2016	4/3/2017	CY7C1370KV33-167AXI		
4	CY7C1370D-167AXIT	10/5/2016	4/3/2017	CY7C1370KV33-167AXIT		
5	CY7C1370D-167BZXC	10/5/2016	4/3/2017	CY7C1370KV33-167BZXC		
6	CY7C1370D-200AXC	10/5/2016	4/3/2017	CY7C1370KV33-200AXC		
7	CY7C1370D-200AXCT	10/5/2016	4/3/2017	CY7C1370KV33-200AXCT		
8	CY7C1370D-200AXI	10/5/2016	4/3/2017	CY7C1370KV33-200AXI		
9	CY7C1370D-200BZI	10/5/2016	4/3/2017		CY7C1370KV33-167BZXC	1. Lead free replacement for Leaded part 2. Lower frequency 3. Commercial temp
10	CY7C1370D-200BZIT	10/5/2016	4/3/2017		CY7C1370KV33-167BZXC	1. Lead free replacement for Leaded part 2. Lower frequency 3. Commercial temp
11	CY7C1370D-250AXC	10/5/2016	4/3/2017	CY7C1370KV33-250AXC		
12	CY7C1370D-250AXCT	10/5/2016	4/3/2017	CY7C1370KV33-250AXCT		
13	CY7C1370D-250AXI	10/5/2016	4/3/2017		CY7C1370KV33-250AXC	1. Commercial temp
14	CY7C1370DV25-167AXC	10/5/2016	4/3/2017	CY7C1370KV25-167AXC		
15	CY7C1370DV25-167AXCT	10/5/2016	4/3/2017	CY7C1370KV25-167AXCT		
16	CY7C1370DV25-167BZC	10/5/2016	4/3/2017	CY7C1370KV25-167BZC		
17	CY7C1370DV25-200AXC	10/5/2016	4/3/2017	CY7C1370KV25-200AXC		
18	CY7C1370DV25-200AXCT	10/5/2016	4/3/2017	CY7C1370KV25-200AXCT		
19	CY7C1370DV25-200BZC	10/5/2016	4/3/2017	CY7C1370KV25-200BZC		
20	CY7C1370DV25-200BZCT	10/5/2016	4/3/2017	CY7C1370KV25-200BZCT		
21	CY7C1370S-167AXC	10/5/2016	4/3/2017	CY7C1370KV33-167AXC		
22	CY7C1370S-200AXC	10/5/2016	4/3/2017	CY7C1370KV33-200AXC		
23	CY7C1370S-200AXCT	10/5/2016	4/3/2017	CY7C1370KV33-200AXCT		
24	CY7C1370SV25-167AXC	10/5/2016	4/3/2017	CY7C1370KV25-167AXC		
25	CY7C1370SV25-167AXCT	10/5/2016	4/3/2017	CY7C1370KV25-167AXCT		
26	CY7C1370SV25-167BZC	10/5/2016	4/3/2017	CY7C1370KV25-167BZC		
27	CY7C1370SV25-200AXC	10/5/2016	4/3/2017	CY7C1370KV25-200AXC		
28	CY7C1371D-100AXC	10/5/2016	4/3/2017	CY7C1371KV33-100AXC		
29	CY7C1371D-100AXCT	10/5/2016	4/3/2017	CY7C1371KV33-100AXCT		
30	CY7C1371D-100AXI	10/5/2016	4/3/2017	CY7C1371KV33-100AXI		
31	CY7C1371D-133AXC	10/5/2016	4/3/2017	CY7C1371KV33-133AXC		
32	CY7C1371D-133AXCT	10/5/2016	4/3/2017	CY7C1371KV33-133AXCT		
33	CY7C1371D-133BGC	10/5/2016	4/3/2017		CY7C1371KV33-133AXC	1. TQFP package instead of BGA 2. Lead free replacement for leaded part
34	CY7C1371D-133BGCT	10/5/2016	4/3/2017		CY7C1371KV33-133AXCT	1. TQFP package instead of BGA 2. Lead free replacement for leaded part
35	CY7C1371DV33-133AXI	10/5/2016	4/3/2017		CY7C1371KVE33-133AXI	1. ECC option instead of non-ECC
36	CY7C1371S-133AXC	10/5/2016	4/3/2017	CY7C1371KV33-133AXC		
37	CY7C1371S-133AXCT	10/5/2016	4/3/2017	CY7C1371KV33-133AXCT		
38	CY7C1371S-133BGC	10/5/2016	4/3/2017		CY7C1371KV33-133AXC	1. TQFP package instead of BGA 2. Lead free replacement for leaded part
39	CY7C1371S-133BGCT	10/5/2016	4/3/2017		CY7C1371KV33-133AXCT	1. TQFP package instead of BGA 2. Lead free replacement for leaded part
40	CY7C1372D-167AXC	10/5/2016	4/3/2017	CY7C1372KV33-167AXC		
41	CY7C1372D-167AXCT	10/5/2016	4/3/2017	CY7C1372KV33-167AXCT		
42	CY7C1372D-167AXI	10/5/2016	4/3/2017	CY7C1372KV33-167AXI		
43	CY7C1372D-167AXIT	10/5/2016	4/3/2017	CY7C1372KV33-167AXIT		
44	CY7C1372D-200AXC	10/5/2016	4/3/2017	CY7C1372KV33-200AXC		
45	CY7C1372DV25-167AXC	10/5/2016	4/3/2017	CY7C1372KV25-167AXC		
46	CY7C1372DV25-167AXCT	10/5/2016	4/3/2017	CY7C1372KV25-167AXCT		
47	CY7C1372S-167AXC	10/5/2016	4/3/2017	CY7C1372KV33-167AXC		
48	CY7C1372SV25-167AXC	10/5/2016	4/3/2017	CY7C1372KV25-167AXC		
49	CY7C1372SV25-167AXCT	10/5/2016	4/3/2017	CY7C1372KV25-167AXCT		
50	CY7C1373D-100AXC	10/5/2016	4/3/2017	CY7C1373KV33-100AXC		
51	CY7C1373D-133AXI	10/5/2016	4/3/2017	CY7C1373KV33-133AXI		
52	CY7C1380D-167AXC	10/5/2016	4/3/2017	CY7C1380KV33-167AXC		
53	CY7C1380D-167AXCT	10/5/2016	4/3/2017	CY7C1380KV33-167AXCT		
54	CY7C1380D-167AXI	10/5/2016	4/3/2017	CY7C1380KV33-167AXI		
55	CY7C1380D-167AXIT	10/5/2016	4/3/2017	CY7C1380KV33-167AXIT		
56	CY7C1380D-200AXC	10/5/2016	4/3/2017	CY7C1380KV33-200AXC		
57	CY7C1380D-250AXC	10/5/2016	4/3/2017	CY7C1380KV33-250AXC		
58	CY7C1380F-167BZI	10/5/2016	4/3/2017	CY7C1380KV33-167BZI		
59	CY7C1380F-167BZIT	10/5/2016	4/3/2017	CY7C1380KV33-167BZIT		
60	CY7C1380S-167AXC	10/5/2016	4/3/2017	CY7C1380KV33-167AXC		
61	CY7C1380S-167AXCT	10/5/2016	4/3/2017	CY7C1380KV33-167AXCT		
62	CY7C1380S-167BZC	10/5/2016	4/3/2017		CY7C1380KV33-167BZI	1. Industrial temp
63	CY7C1380S-167BZCT	10/5/2016	4/3/2017		CY7C1380KV33-167BZIT	1. Industrial temp
64	CY7C1381D-100AXC	10/5/2016	4/3/2017	CY7C1381KV33-100AXC		
65	CY7C1381D-100AXCT	10/5/2016	4/3/2017	CY7C1381KV33-100AXCT		
66	CY7C1381D-100BZI	10/5/2016	4/3/2017		CY7C1381KV33-100BZXI	1. Lead free replacement for Leaded part
67	CY7C1381D-100BZIT	10/5/2016	4/3/2017		CY7C1381KV33-100BZKIT	1. Lead free replacement for Leaded part
68	CY7C1381D-100BZXI	10/5/2016	4/3/2017	CY7C1381KV33-100BZXI		
69	CY7C1381D-133AXC	10/5/2016	4/3/2017	CY7C1381KV33-133AXC		
70	CY7C1381D-133AXCT	10/5/2016	4/3/2017	CY7C1381KV33-133AXCT		
71	CY7C1381D-133AXI	10/5/2016	4/3/2017	CY7C1381KV33-133AXI		
72	CY7C1381D-133AXIT	10/5/2016	4/3/2017	CY7C1381KV33-133AXIT		
73	CY7C1381S-133AXC	10/5/2016	4/3/2017	CY7C1381KV33-133AXC		
74	CY7C1382D-167AXC	10/5/2016	4/3/2017	CY7C1382KV33-167AXC		
75	CY7C1382D-200AXC	10/5/2016	4/3/2017	CY7C1382KV33-200AXC		
76	CY7C1382DV33-200BZI	10/5/2016	4/3/2017		CY7C1382KV33-200AXC	1. TQFP package instead of BGA 2. Lead free replacement for leaded part
77	CY7C1383D-133AXC	10/5/2016	4/3/2017	CY7C1383KV33-133AXC		
78	CY7C1383D-133AXCT	10/5/2016	4/3/2017	CY7C1383KV33-133AXCT		
79	CY7C1383D-133AXI	10/5/2016	4/3/2017	CY7C1383KV33-133AXI		
80	CY7C1386D-167AXC	10/5/2016	4/3/2017	CY7C1386KV33-167AXC		
81	CY7C1386D-167AXCT	10/5/2016	4/3/2017	CY7C1386KV33-167AXCT		
82	CY7C1386D-200AXC	10/5/2016	4/3/2017	CY7C1386KV33-200AXC		

83	CY7C1386D-200AXCT	10/5/2016	4/3/2017	CY7C1386KV33-200AXCT		
84	CY7C1386S-167AXC	10/5/2016	4/3/2017	CY7C1386KV33-167AXC		
85	CY7C1387D-167AXC	10/5/2016	4/3/2017	CY7C1387KV33-167AXC		
86	CY7C1387D-167AXCT	10/5/2016	4/3/2017	CY7C1387KV33-167AXCT		
87	CG7803AA	10/5/2016	4/3/2017		CY7C1386KV33-167AXC	Cu Wire offered as replacement for Au Wire
88	CG7803AAT	10/5/2016	4/3/2017		CY7C1386KV33-167AXCT	Cu Wire offered as replacement for Au Wire
89	CG7841AA	10/5/2016	4/3/2017		CY7C1372KV33-167AXC	Cu Wire offered as replacement for Au Wire
90	CG7841AAT	10/5/2016	4/3/2017		CY7C1372KV33-167AXCT	Cu Wire offered as replacement for Au Wire
91	CG7901AA	10/5/2016	4/3/2017		CY7C1370KV25-167AXC	Cu Wire offered as replacement for Au Wire
92	CG7901AAT	10/5/2016	4/3/2017		CY7C1370KV25-167AXCT	Cu Wire offered as replacement for Au Wire
93	CG7910AA	10/5/2016	4/3/2017		CY7C1370KV33-167AXC	Cu Wire offered as replacement for Au Wire
94	CG7910AAT	10/5/2016	4/3/2017		CY7C1370KV33-167AXCT	Cu Wire offered as replacement for Au Wire
95	CG7965AA	10/5/2016	4/3/2017		CY7C1387KV33-167AXC	Cu Wire offered as replacement for Au Wire
96	CG7965AAT	10/5/2016	4/3/2017		CY7C1387KV33-167AXCT	Cu Wire offered as replacement for Au Wire
97	CG7985AA	10/5/2016	4/3/2017		CY7C1371KV33-133AXC	Cu Wire offered as replacement for Au Wire
98	CG7985AAT	10/5/2016	4/3/2017		CY7C1371KV33-133AXCT	Cu Wire offered as replacement for Au Wire
99	CG8100AA	10/5/2016	4/3/2017		CY7C1370KV33-200AXC	Cu Wire offered as replacement for Au Wire
100	CG8100AAT	10/5/2016	4/3/2017		CY7C1370KV33-200AXCT	Cu Wire offered as replacement for Au Wire
101	CG8101AA	10/5/2016	4/3/2017		CY7C1372KV33-200AXC	Cu Wire offered as replacement for Au Wire
102	CG8102AA	10/5/2016	4/3/2017		CY7C1380KV33-167AXC	Cu Wire offered as replacement for Au Wire
103	CG8102AAT	10/5/2016	4/3/2017		CY7C1380KV33-167AXCT	Cu Wire offered as replacement for Au Wire