



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

PRODUCT CHANGE NOTIFICATION

PCN: PCN163801

Date: September 23, 2016

Subject: Qualification of Cypress Bangkok as an additional Assembly Site for Select 165 Ball Grid Array (BGA) Products

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of Cypress Bangkok (formerly Spansion Bangkok) for the assembly of select 165 Ball Grid Array (BGA) products. Cypress Bangkok is a world-class assembly facility, qualified to build standard grade as well as automotive grade products consistent with AEC-Q100. Cypress Bangkok is certified to several international quality standards, including ISO/TS16949, OHSAS18001 and ANSI/ESD S20.20. The qualification of this facility will enable Cypress to tailor assembly operations to meet our customers' stringent quality and reliability requirements in our effort to continually provide world-class service. 165 BGA packages assembled at Cypress Bangkok will use the following shaded Bill of Materials (BOM).

165BGA			
	36M SYNC	144M QDR	36M SYNC / 144M QDR
Assembly Site	CY Philippines	CY Philippines	CY Bangkok
Mold Compound	Henkel GR9810	Henkel GR9810	ShinEtsu KMC-3580
Die Attach	Henkel ATB-125US1	Henkel QMI 506	Hitachi HR9050G
Bond Wire	0.8 mil Cu-Pd	0.8 mil Cu-Pd	0.8 mil Cu-Pd
Solder Ball	95.5% Sn, 4.0% Ag, 0.5% Cu	95.5% Sn, 4.0% Ag, 0.5% Cu	95.5% Sn, 4.0% Ag, 0.5% Cu
	62.0% Sn, 36.0% Pb, 2.0% Ag	62.0% Sn, 36.0% Pb, 2.0% Ag	63.0% Sn, 37.0% Pb

There are no changes to ordering part numbers. Product datasheets remain the same and can be downloaded from the Cypress Website (www.cypress.com).

Benefit of Change:

Qualification of additional manufacturing sites is part of Cypress's continuous improvement in our flexible manufacturing initiative providing Cypress with the added capability to meet upside market demand, reduce business continuity risk, and ensure consistent and reliable delivery to customers in dynamic, changing market conditions.

Affected Part Numbers: 73

Affected Parts: See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new 165 BGA parts that are introduced after the publication of this PCN may also be manufactured at the Cypress Bangkok facility.

Qualification Status:

Cypress Bangkok has been qualified through a series of tests documented in the Qualification Test Plan (QTP) report 163610. The qualification report can be found as an attachment to this notification.

Sample Status:

Qualification samples are not built ahead of time for all part numbers affected by this change. Please review the attached file for a list of affected part numbers with their associated sample ordering part numbers. Sample requests for products without sample order part numbers are not built ahead of time, they will be built to order and subject to standard lead times. Please contact your sales representative as soon as possible, but within 30 days of the date of this PCN, to place any sample orders.

Approximate Implementation Date:

Effective 90 days from the date of this notification or upon customer approval, whichever comes first, all shipments of the affected part numbers in the attached file will be supplied from Cypress Bangkok or any other approved assembly sites.

Anticipated Impact:

Products manufactured at Cypress Bangkok are completely compatible with existing product from a functional, parametric, and quality performance perspective.

Cypress 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:

There will be no changes to the part number. 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.

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	Sample Order Part Number	Description
1	CY7C1440KV25-250BZXI	Available to order; subject to lead time	36M Sync
2	CY7C1440KV25-250BZXIT	Available to order; subject to lead time	36M Sync
3	CY7C1440KV33-250BZXI	Available to order; subject to lead time	36M Sync
4	CY7C1441KV25-133BZXI	Available to order; subject to lead time	36M Sync
5	CY7C1441KV25-133BZXIT	Available to order; subject to lead time	36M Sync
6	CY7C1441KV33-133BZM	Available to order; subject to lead time	36M Sync
7	CY7C1441KV33-133BZXI	Available to order; subject to lead time	36M Sync
8	CY7C1460KV25-167BZC	Available to order; subject to lead time	36M Sync
9	CY7C1460KV25-167BZCT	Available to order; subject to lead time	36M Sync
10	CY7C1460KV25-167BZXI	Available to order; subject to lead time	36M Sync
11	CY7C1460KV25-200BZI	Available to order; subject to lead time	36M Sync
12	CY7C1460KV25-200BZXI	Available to order; subject to lead time	36M Sync
13	CY7C1460KV25-250BZC	Available to order; subject to lead time	36M Sync
14	CY7C1460KV33-167BZC	Available to order; subject to lead time	36M Sync
15	CY7C1460KVE25-200BZXI	Available to order; subject to lead time	36M Sync
16	CY7C1460KVE33-167BZC	Available to order; subject to lead time	36M Sync
17	CY7C1462KV25-167BZI	Available to order; subject to lead time	36M Sync
18	CY7C1462KV25-250BZXC	Available to order; subject to lead time	36M Sync
19	CY7C1462KVE25-167BZI	Available to order; subject to lead time	36M Sync
20	CY7C1612KV18-250BZXC	Available to order; subject to lead time	144M QDR
21	CY7C1612KV18-250BZXI	Available to order; subject to lead time	144M QDR
22	CY7C1612KV18-300BZXI	Available to order; subject to lead time	144M QDR
23	CY7C1612KV18-333BZC	Available to order; subject to lead time	144M QDR
24	CY7C1612KV18-333BZXC	Available to order; subject to lead time	144M QDR
25	CY7C1612KV18-360BZXC	Available to order; subject to lead time	144M QDR
26	CY7C1613KV18-300BZI	Available to order; subject to lead time	144M QDR
27	CY7C1613KV18-300BZXC	Available to order; subject to lead time	144M QDR
28	CY7C1613KV18-333BZXC	Available to order; subject to lead time	144M QDR
29	CY7C1614KV18-250BZI	Available to order; subject to lead time	144M QDR
30	CY7C1614KV18-333BZC	Available to order; subject to lead time	144M QDR
31	CY7C1615KV18-250BZXC	Available to order; subject to lead time	144M QDR
32	CY7C1615KV18-300BZXI	Available to order; subject to lead time	144M QDR
33	CY7C1615KV18-333BZXC	Available to order; subject to lead time	144M QDR
34	CY7C1618KV18-300BZXC	CY7C1618KV18-300BXCKK	144M QDR
35	CY7C1618KV18-333BZXC	Available to order; subject to lead time	144M QDR
36	CY7C1620KV18-250BZXC	Available to order; subject to lead time	144M QDR
37	CY7C1620KV18-333BZXI	Available to order; subject to lead time	144M QDR
38	CY7C1625KV18-250BZXC	CY7C1625KV18-250BXCKK	144M QDR
39	CY7C1625KV18-250BZXI	CY7C1625KV18-250BXIKK	144M QDR
40	CY7C1625KV18-333BZXC	Available to order; subject to lead time	144M QDR
41	CY7C1643KV18-400BZC	Available to order; subject to lead time	144M QDR
42	CY7C1643KV18-400BZXC	Available to order; subject to lead time	144M QDR
43	CY7C1643KV18-450BZI	Available to order; subject to lead time	144M QDR
44	CY7C1645KV18-400BZXI	Available to order; subject to lead time	144M QDR
45	CY7C1645KV18-450BZXI	Available to order; subject to lead time	144M QDR
46	CY7C1648KV18-400BZXC	Available to order; subject to lead time	144M QDR
47	CY7C1650KV18-450BZC	Available to order; subject to lead time	144M QDR
48	CY7C1663KV18-550BZXC	Available to order; subject to lead time	144M QDR
49	CY7C1665KV18-550BZXC	CY7C1665KV18-550BXCKK	144M QDR
50	CY7C1668KV18-450BZXC	Available to order; subject to lead time	144M QDR
51	CY7C1668KV18-550BZXC	Available to order; subject to lead time	144M QDR
52	CY7C1670KV18-450BZXC	Available to order; subject to lead time	144M QDR
53	CY7C1670KV18-550BZXC	Available to order; subject to lead time	144M QDR
54	CY7C2642KV18-333BZXC	Available to order; subject to lead time	144M QDR

55	CY7C2644KV18-300BZXI	Available to order; subject to lead time	144M QDR
56	CY7C2644KV18-333BZI	Available to order; subject to lead time	144M QDR
57	CY7C2644KV18-333BZXI	Available to order; subject to lead time	144M QDR
58	CY7C2663KV18-450BZI	Available to order; subject to lead time	144M QDR
59	CY7C2663KV18-450BZXC	Available to order; subject to lead time	144M QDR
60	CY7C2663KV18-550BZI	Available to order; subject to lead time	144M QDR
61	CY7C2663KV18-550BZXC	Available to order; subject to lead time	144M QDR
62	CY7C2663KV18-550BZXI	Available to order; subject to lead time	144M QDR
63	CY7C2665KV18-450BZI	Available to order; subject to lead time	144M QDR
64	CY7C2665KV18-450BZXI	Available to order; subject to lead time	144M QDR
65	CY7C2665KV18-550BZI	Available to order; subject to lead time	144M QDR
66	CY7C2665KV18-550BZXC	Available to order; subject to lead time	144M QDR
67	CY7C2665KV18-550BZXI	CY7C2665KV18-550BXIKK	144M QDR
68	CY7C2670KV18-450BZI	Available to order; subject to lead time	144M QDR
69	CY7C2670KV18-550BZI	Available to order; subject to lead time	144M QDR
70	CY7C2670KV18-550BZXI	Available to order; subject to lead time	144M QDR
71	CG7706AA	CG7706KKA	144M QDR
72	CG8198AA	Available to order; subject to lead time	144M QDR
73	CG8362AM	Available to order; subject to lead time	144M QDR