



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

PRODUCT CHANGE NOTIFICATION

PCN: PCN162502

Date: June 24, 2016

Subject: Qualification of Cypress Bangkok as an Additional Assembly Site for Select 48 and 121 Ball Grid Array (BGA) Products

To: JAMIE PEDERSON
DIGIKEY
digiKey.supplierInfo@digkey.com

Change Type: Major

Description of Change:

Cypress announces the qualification of Cypress Bangkok (formerly Spansion Bangkok) for the assembly of select 48 and 121 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. 48 and 121 BGA packages assembled at Cypress Bangkok will use the following Bill of Materials (BoM).

48BGA			
Assembly Site	CY Philippines	ASE Taiwan	CY Bangkok
Mold Compound	Henkel GR9810	Kyocera KEG2250	ShinEtsu KMC-3580
Die Attach	Henkel QMI 506	Henkel 2025D	Sumitomo CRM-1577DB
	Henkel 2035SC		Henkel QMI 546
Bond Wire	0.8 mil Cu-Pd	0.8 mil Cu-Pd	0.8 mil Cu-Pd
Solder Ball	98.5% Sn, 1.0% Ag, 0.5%Cu	98.5% Sn, 1.0% Ag, 0.5% Cu	98.5% Sn, 1.0% Ag, 0.5% Cu

121BGA			
Assembly Site	CY Philippines	ASE Taiwan	CY Bangkok
Mold Compound	Henkel GR9810	Kyocera KEG2250	ShinEtsu KMC-3580
Die Attach	Henkel QMI 506	Henkel 2100A	Sumitomo CRM-1577DB
			Henkel QMI 546
Bond Wire	0.8 mil Cu-Pd	0.8 mil Cu-Pd	0.8 mil Cu-Pd
Solder Ball	98.5% Sn, 1.0% Ag, 0.5%Cu	98.5% Sn, 1.0% Ag, 0.5% Cu	98.5% Sn, 1.0% Ag, 0.5% Cu

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:

This qualification 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: 75

Affected Parts: See the attached ‘Affected Parts List’ file for the list of part numbers affected by this change. Note that any new 48 or 121 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 below. The qualification report can be found as an attachment to this notification.

QTP No.	Change
160703	Qualification of CY Bangkok 48 FBGA
162304	Qualification of CY Bangkok 121 FBGA
Q100048 Q100052a	Qualification of QMI 546 Die Attach Material in BGA Package

Sample Status:

Qualification samples are not built ahead of time for all part numbers affected by this change. Please review the attached ‘Affected parts list’ file for the 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	Package
1	CY14B101LA-BA25XI	Available to order; subject to lead time	48 BGA
2	CY14B101LA-BA25XIT	Available to order; subject to lead time	48 BGA
3	CY14B101LA-BA45XI	CY14B101LA-BA45XIKK	48 BGA
4	CY14B101LA-BA45XIT	CY14B101LA-BA45XIKK	48 BGA
5	CY14B102NS-BA45XC	Available to order; subject to lead time	48 BGA
6	CY14B102NS-BA45XCT	Available to order; subject to lead time	48 BGA
7	CY14B104LA-BA25XI	Available to order; subject to lead time	48 BGA
8	CY14B104LA-BA25XIT	Available to order; subject to lead time	48 BGA
9	CY14B104LA-BA45XI	Available to order; subject to lead time	48 BGA
10	CY14B104LA-BA45XIT	Available to order; subject to lead time	48 BGA
11	CY14B104NA-BA20XI	Available to order; subject to lead time	48 BGA
12	CY14B104NA-BA20XIT	Available to order; subject to lead time	48 BGA
13	CY14B104NA-BA25XI	CY14B104NA-BA25XIKK	48 BGA
14	CY14B104NA-BA25XIT	CY14B104NA-BA25XIKK	48 BGA
15	CY14B104NA-BA45XE	Available to order; subject to lead time	48 BGA
16	CY14B104NA-BA45XET	Available to order; subject to lead time	48 BGA
17	CY14B104NA-BA45XI	CY14B104NA-BA45XIKK	48 BGA
18	CY14B104NA-BA45XIT	CY14B104NA-BA45XIKK	48 BGA
19	CY14B108L-BA25XI	Available to order; subject to lead time	48 BGA
20	CY14B108L-BA25XIT	Available to order; subject to lead time	48 BGA
21	CY14B108L-BA45XI	Available to order; subject to lead time	48 BGA
22	CY14B108L-BA45XIT	Available to order; subject to lead time	48 BGA
23	CY14B108N-BA25XI	Available to order; subject to lead time	48 BGA
24	CY14B108N-BA25XIT	Available to order; subject to lead time	48 BGA
25	CY14B108N-BA45XI	Available to order; subject to lead time	48 BGA
26	CY14B108N-BA45XIT	Available to order; subject to lead time	48 BGA
27	CY14U256LA-BA35XI	CY14U256LA-BA35XIKK	48 BGA
28	CY14U256LA-BA35XIT	CY14U256LA-BA35XIKK	48 BGA
29	CY14V101LA-BA25XI	CY14V101LA-BA25XIKK	48 BGA
30	CY14V101LA-BA25XIT	CY14V101LA-BA25XIKK	48 BGA
31	CY14V101LA-BA45XI	CY14V101LA-BA45XIKK	48 BGA
32	CY14V101LA-BA45XIT	CY14V101LA-BA45XIKK	48 BGA
33	CY14V101NA-BA25XI	CY14V101NA-BA25XIKK	48 BGA
34	CY14V101NA-BA25XIT	CY14V101NA-BA25XIKK	48 BGA
35	CY14V101NA-BA45XI	CY14V101NA-BA45XIKK	48 BGA
36	CY14V101NA-BA45XIT	CY14V101NA-BA45XIKK	48 BGA
37	CY14V104LA-BA25XI	Available to order; subject to lead time	48 BGA
38	CY14V104LA-BA25XIT	Available to order; subject to lead time	48 BGA
39	CY14V104LA-BA45XI	Available to order; subject to lead time	48 BGA
40	CY14V104LA-BA45XIT	Available to order; subject to lead time	48 BGA
41	CY14V104NA-BA25XI	Available to order; subject to lead time	48 BGA
42	CY14V104NA-BA25XIT	Available to order; subject to lead time	48 BGA
43	CY14V104NA-BA45XI	CY14V104NA-BA45XIKK	48 BGA
44	CY14V104NA-BA45XIT	CY14V104NA-BA45XIKK	48 BGA
45	CY14V256LA-BA35XI	Available to order; subject to lead time	48 BGA
46	CY14V256LA-BA35XIT	Available to order; subject to lead time	48 BGA
47	CYUSB2014-BZXC	CYUSB2014-BZXCCK	121 BGA
48	CYUSB2014-BZXCT	CYUSB2014-BZXCCK	121 BGA
49	CYUSB2014-BZXI	CYUSB2014-BZXIKK	121 BGA
50	CYUSB2014-BZXIT	CYUSB2014-BZXIKK	121 BGA
51	CYUSB2024-BZXI	Available to order; subject to lead time	121 BGA
52	CYUSB2025-BZXI	Available to order; subject to lead time	121 BGA
53	CYUSB3011-BZXC	CYUSB3011-BZXCCK	121 BGA
54	CYUSB3012-BZXC	Available to order; subject to lead time	121 BGA

55	CYUSB3013-BZXC	Available to order; subject to lead time	121 BGA
56	CYUSB3014-BZXC	Available to order; subject to lead time	121 BGA
57	CYUSB3014-BZXCT	Available to order; subject to lead time	121 BGA
58	CYUSB3014-BZXI	Available to order; subject to lead time	121 BGA
59	CYUSB3014-BZXIT	Available to order; subject to lead time	121 BGA
60	CYUSB3025-BZXI	Available to order; subject to lead time	121 BGA
61	CYUSB3031-BZXC	Available to order; subject to lead time	121 BGA
62	CYUSB3033-BZXC	Available to order; subject to lead time	121 BGA
63	CYUSB3035-BZXC	CYUSB3035-BZXCKK	121 BGA
64	CYUSB3035-BZXI	Available to order; subject to lead time	121 BGA
65	CYWB0164BB-BZXI	Available to order; subject to lead time	121 BGA
66	CG7624AM	CG7624KKA	121 BGA
67	CG7624AMT	CG7624KKA	121 BGA
68	CG7648AM	CG7648KKA	121 BGA
69	CG7648AMT	CG7648KKA	121 BGA
70	CG7943AM	Available to order; subject to lead time	121 BGA
71	CG7983AM	CG7983KKA	121 BGA
72	CG7983AMT	CG7983KKA	121 BGA
73	CG8083AA	Available to order; subject to lead time	48 BGA
74	CG8561AM	Available to order; subject to lead time	48 BGA
75	CG8561AMT	Available to order; subject to lead time	48 BGA