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PRODUCT CHANGE NOTIFICATION

PCN: PCN181006

Date: April 05, 2018

Subject: Qualification of Fab 25 as an Additional Wafer Fab Site, Test 25 as an Additional Sort Site and ASE-Kaohsiung Taiwan as an Additional Assembly, Test and Finish Site for the PSoC® 4xx7 BLE and PSoC® 4xx8 BLE Product Family

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of Fab 25 in Austin, Texas as an additional wafer fab site, Test 25 as an additional sort site in Austin, Texas and qualification of ASE-Kaohsiung Taiwan (ASE-KH) as an additional assembly, test and finish site for 56-Pin QFN (7x7x0.6mm) for the PSoC® 4xx7 BLE and PSoC® 4xx8 BLE product family.

ASE-KH is a world-class manufacturing facility, qualified to build standard grade as well as automotive grade products in consistent with AEC-Q100. ASE-KH 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 manufacturing operations to meet our customers' stringent quality and reliability requirements in our effort to continually provide world-class service. 56-pin QFN (7x7x0.6mm) packages assembled at ASE-KH will use the following Bill of Materials (BOM).

Assembly Site	Cypress Philippines	ASE-Kaohsiung Taiwan
Mold Compound	Sumitomo G700Y	Sumitomo EME-G700LA
Die Attach	Ablestik QMI519	Hitachi EN4900F
Bond Wire	0.8 mil CuPd	0.8 mil CuPd
Lead Finish	NiPdAu	Pure Sn

These qualifications are part of the flexible manufacturing initiatives which allow Cypress to meet its delivery commitments in dynamic and changing market conditions.

Benefit of Change:

Qualification of alternate manufacturing sites is part of the ongoing flexible manufacturing initiative announced by Cypress. The goal of the flexible manufacturing initiative is to provide

the means for Cypress to continue to meet delivery commitments through dynamic, changing market conditions.

Part Numbers Affected: 82

See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new parts that are introduced after the publication of this PCN will include all changes outlined in this PCN.

Qualification Status:

These products have been qualified through a series of tests documented in the Qualification Test Plans summarized in the table below. These qualification reports can be found as attachments to this PCN or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Qualification	QTP Report Number
PSoC® 4xx7 BLE Device Family Fab 25	151603
PSoC® 4xx8 BLE Device Family Fab 25	162013
Cypress Test 25 as Additional Sort Site	171610
ASE-KH as Additional Assembly Site	144405
ASE-KH as Additional Test Site	153801
ASE-KH as Additional Finish Site	113901

Sample Status:

Qualification samples may not be built ahead of time for all part numbers affected by this change. Please review the attached 'Affected Parts List' file for a list of affected part numbers with their associated sample ordering part numbers. Samples are available now unless there is an indication that the sample ordering part numbers are subject to lead times. If you require qualification samples, please contact your local Cypress sales representative as soon as possible, preferably 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 any of the qualified manufacturing sites. This change will be effective upon customer approval.

Anticipated Impact:

Products manufactured at Fab 25, Sorted at Test 25 and manufactured at ASE are completely compatible with existing products from form, fit, functional, parametric, and quality performance perspectives.

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:

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	Package	Sample Order Part Number
1	CY8C4127FNI-BL483T	68-WLCSP	CY8C4127FNI2-BL483; Subject to lead time
2	CY8C4127FNI-BL493T	68-WLCSP	CY8C4127FNI2-BL493; Subject to lead time
3	CY8C4127LQI-BL453	56-QFN	CY8C4127LQI2-BL453
4	CY8C4127LQI-BL453T	56-QFN	CY8C4127LQI2-BL453
5	CY8C4127LQI-BL473	56-QFN	CY8C4127LQ2I-BL473; Subject to lead time
6	CY8C4127LQI-BL473T	56-QFN	CY8C4127LQI2-BL473; Subject to lead time
7	CY8C4127LQI-BL483	56-QFN	CY8C4127LQI2-BL483; Subject to lead time
8	CY8C4127LQI-BL483T	56-QFN	CY8C4127LQI2-BL483; Subject to lead time
9	CY8C4127LQI-BL493	56-QFN	CY8C4127LQI2-BL493; Subject to lead time
10	CY8C4127LQI-BL493T	56-QFN	CY8C4127LQI2-BL493; Subject to lead time
11	CY8C4128FNI-BL543T	76-WLCSP	CY8C4128FNI2-BL543; Subject to lead time
12	CY8C4128FNI-BL553T	76-WLCSP	CY8C4128FNI2-BL553; Subject to lead time
13	CY8C4128FNI-BL563T	76-WLCSP	CY8C4128FNI2-BL563; Subject to lead time
14	CY8C4128FNI-BL573T	76-WLCSP	CY8C4128FNI2-BL573; Subject to lead time
15	CY8C4128FNI-BL583T	76-WLCSP	CY8C4128FNI2-BL583; Subject to lead time
16	CY8C4128FNI-BL593T	76-WLCSP	CY8C4128FNI2-BL593; Subject to lead time
17	CY8C4128LQI-BL473	56-QFN	CY8C4128LQI2-BL473; Subject to lead time
18	CY8C4128LQI-BL473T	56-QFN	CY8C4128LQI2-BL473; Subject to lead time
19	CY8C4128LQI-BL483	56-QFN	CY8C4128LQI2-BL483; Subject to lead time
20	CY8C4128LQI-BL483T	56-QFN	CY8C4128LQI2-BL483; Subject to lead time
21	CY8C4128LQI-BL543	56-QFN	CY8C4128LQI2-BL543; Subject to lead time
22	CY8C4128LQI-BL543T	56-QFN	CY8C4128LQI2-BL543; Subject to lead time
23	CY8C4128LQI-BL553	56-QFN	CY8C4128LQI2-BL553; Subject to lead time
24	CY8C4128LQI-BL553T	56-QFN	CY8C4128LQI2-BL553; Subject to lead time
25	CY8C4128LQI-BL563	56-QFN	CY8C4128LQI2-BL563; Subject to lead time
26	CY8C4128LQI-BL563T	56-QFN	CY8C4128LQI2-BL563; Subject to lead time
27	CY8C4128LQI-BL573	56-QFN	CY8C4128LQI2-BL573; Subject to lead time
28	CY8C4128LQI-BL573T	56-QFN	CY8C4128LQI2-BL573; Subject to lead time
29	CY8C4128LQI-BL583	56-QFN	CY8C4128LQI2-BL583
30	CY8C4128LQI-BL583T	56-QFN	CY8C4128LQI2-BL583
31	CY8C4128LQI-BL593	56-QFN	CY8C4128LQI2-BL593; Subject to lead time
32	CY8C4128LQI-BL593T	56-QFN	CY8C4128LQI2-BL593; Subject to lead time
33	CY8C4247FLI-BL493T	68-Thin WLCSP	CY8C4247FLI2-BL493; Subject to lead time
34	CY8C4247FNI-BL473T	68-WLCSP	CY8C4247FNI2-BL473; Subject to lead time
35	CY8C4247FNI-BL483T	68-WLCSP	CY8C4247FNI2-BL483; Subject to lead time
36	CY8C4247FNI-BL493T	68-WLCSP	CY8C4247FNI2-BL493; Subject to lead time
37	CY8C4247FNQ-BL483T	68-WLCSP	CY8C4247FNQ2-BL483; Subject to lead time
38	CY8C4247LQI-BL453	56-QFN	CY8C4247LQI2-BL453; Subject to lead time
39	CY8C4247LQI-BL453T	56-QFN	CY8C4247LQI2-BL453; Subject to lead time
40	CY8C4247LQI-BL463	56-QFN	CY8C4247LQ2I-BL463; Subject to lead time
41	CY8C4247LQI-BL463T	56-QFN	CY8C4247LQI2-BL463; Subject to lead time
42	CY8C4247LQI-BL473	56-QFN	CY8C4247LQI2-BL473
43	CY8C4247LQI-BL473T	56-QFN	CY8C4247LQI2-BL473
44	CY8C4247LQI-BL483	56-QFN	CY8C4247LQI2-BL483
45	CY8C4247LQI-BL483T	56-QFN	CY8C4247LQI2-BL483
46	CY8C4247LQI-BL493	56-QFN	CY8C4247LQI2-BL493; Subject to lead time
47	CY8C4247LQI-BL493T	56-QFN	CY8C4247LQI2-BL493; Subject to lead time
48	CY8C4247LQQ-BL483	56-QFN	CY8C4247LQQ2-BL483; Subject to lead time
49	CY8C4247LQQ-BL483T	56-QFN	CY8C4247LQQ2-BL483; Subject to lead time
50	CY8C4248FLI-BL483T	76-Thin WLCSP	CY8C4248FLI2-BL483; Subject to lead time
51	CY8C4248FLI-BL583T	76-Thin WLCSP	CY8C4248FLI2-BL583; Subject to lead time
52	CY8C4248FNI-BL483T	76-WLCSP	CY8C4248FNI2-BL483; Subject to lead time
53	CY8C4248FNI-BL543T	76-WLCSP	CY8C4248FNI2-BL543; Subject to lead time
54	CY8C4248FNI-BL553T	76-WLCSP	CY8C4248FNI2-BL553; Subject to lead time

55	CY8C4248FNI-BL563T	76-WLCSP	CY8C4248FNI2-BL563; Subject to lead time
56	CY8C4248FNI-BL573T	76-WLCSP	CY8C4248FNI2-BL573; Subject to lead time
57	CY8C4248FNI-BL583T	76-WLCSP	CY8C4248FNI2-BL583; Subject to lead time
58	CY8C4248FNI-BL593T	76-WLCSP	CY8C4248FNI2-BL593; Subject to lead time
59	CY8C4248FNQ-BL583T	76-WLCSP	CY8C4248FNQ2-BL583; Subject to lead time
60	CY8C4248LQI-BL453	56-QFN	CY8C4248LQI2-BL453; Subject to lead time
61	CY8C4248LQI-BL453T	56-QFN	CY8C4248LQI2-BL453; Subject to lead time
62	CY8C4248LQI-BL473	56-QFN	CY8C4248LQI2-BL473; Subject to lead time
63	CY8C4248LQI-BL473T	56-QFN	CY8C4248LQI2-BL473; Subject to lead time
64	CY8C4248LQI-BL483	56-QFN	CY8C4248LQI2-BL483; Subject to lead time
65	CY8C4248LQI-BL483T	56-QFN	CY8C4248LQI2-BL483; Subject to lead time
66	CY8C4248LQI-BL543	56-QFN	CY8C4248LQI2-BL543; Subject to lead time
67	CY8C4248LQI-BL543T	56-QFN	CY8C4248LQI2-BL543; Subject to lead time
68	CY8C4248LQI-BL553	56-QFN	CY8C4248LQI2-BL553; Subject to lead time
69	CY8C4248LQI-BL553T	56-QFN	CY8C4248LQI2-BL553; Subject to lead time
70	CY8C4248LQI-BL563	56-QFN	CY8C4248LQI2-BL563; Subject to lead time
71	CY8C4248LQI-BL563T	56-QFN	CY8C4248LQI2-BL563; Subject to lead time
72	CY8C4248LQI-BL573	56-QFN	CY8C4248LQI2-BL573; Subject to lead time
73	CY8C4248LQI-BL573T	56-QFN	CY8C4248LQI2-BL573; Subject to lead time
74	CY8C4248LQI-BL583	56-QFN	CY8C4248LQI2-BL583
75	CY8C4248LQI-BL583T	56-QFN	CY8C4248LQI2-BL583
76	CY8C4248LQI-BL593	56-QFN	CY8C4248LQI2-BL593; Subject to lead time
77	CY8C4248LQI-BL593T	56-QFN	CY8C4248LQI2-BL593; Subject to lead time
78	CY8C4248LQQ-BL583	56-QFN	CY8C4248LQQ2-BL583; Subject to lead time
79	CY8C4248LQQ-BL583T	56-QFN	CY8C4248LQQ2-BL583; Subject to lead time
80	CG8370AM	56-QFN	CG8370BM
81	CS8808AM	56-QFN	CS8808BM; Subject to lead time
82	CS8808AMT	56-QFN	CS8808BM; Subject to lead time