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PRODUCT CHANGE NOTIFICATION

PCN: PCN181106

Date: March 19, 2018

Subject: Qualification of ASE Kaohsiung (ASE-KH) as an Additional Assembly Site for Select 44-Lead, 64-Lead and 100-Lead TQFP Pb-Free Products

Change Type: Major

Description of Change:

Cypress announces the qualification of Advanced Semiconductor Engineering-Kaohsiung (ASE-KH) as an additional assembly site for select 44-Lead, 64-Lead and 100-Lead TQFP Pb-Free products. These products are RoHS and REACH compliant.

The 44-Lead TQFP Pb-Free packages (10x10 mm) are assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
Lead Frame	Matte Sn	NiPdAu
Die Attach Film	Hitachi FH-900	Henkel QMI-509
Bond Wire	0.8mil Au	1.0mil/0.9mil Au

The 64-Lead TQFP Pb-Free packages (14x14 mm) are assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
Lead Frame	Matte Sn	NiPdAu
Die Attach Film	Hitachi FH-900	Henkel QMI-509
Bond Wire	0.8mil CuPdAu	0.8mil CuPd

The 100-Lead TQFP Pb-Free packages (14x14 mm) are assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
Lead Frame	Matte Sn	NiPdAu
Die Attach Epoxy	Sumitomo CRM-1076WA	Henkel QMI-509
Bond Wire	0.8mil Au	1.0mil Au

The 100-Lead TQFP Pb-Free packages (14x20 mm) are assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
Lead Frame	Matte Sn	NiPdAu
Die Attach Epoxy	Sumitomo CRM-1076WA	Henkel QMI-509
Bond Wire	0.8mil Au	0.9 mil Au

The 100-Lead TQFP Pb-Free packages (14x20 mm) are assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
Lead Frame	Matte Sn	NiPdAu
Die Attach Epoxy	Sumitomo CRM-1076WA	Henkel QMI-509
Bond Wire	0.8mil CuPdAu	0.8 mil CuPd

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: 94

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:

This package has been qualified through a series of tests documented in the Qualification Test Plans QTP#174402, QTP#174303, QTP#175002 and QTP#174610. 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.

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 ASE-KH 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 assembled at ASE-KH or other approved assembly sites.

Anticipated Impact:

Products assembled at the new site 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	Sample Order Part Number	Package	Wire Type
1	CY7B993V-2AXC	CY7B993V-2AXCKG; subject to lead time	100-lead TQFP (14x14mm)	Au
2	CY7B993V-2AXCT	CY7B993V-2AXCKG; subject to lead time	100-lead TQFP (14x14mm)	Au
3	CY7B993V-5AXC	CY7B993V-5AXCKG; subject to lead time	100-lead TQFP (14x14mm)	Au
4	CY7B993V-5AXCT	CY7B993V-5AXCKG; subject to lead time	100-lead TQFP (14x14mm)	Au
5	CY7B993V-5AXI	CY7B993V-5AXIKG; subject to lead time	100-lead TQFP (14x14mm)	Au
6	CY7B993V-5AXIT	CY7B993V-5AXIKG; subject to lead time	100-lead TQFP (14x14mm)	Au
7	CY7C1327G-133AXI	CY7C1327G-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
8	CY7C1327G-133AXIT	CY7C1327G-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
9	CY7C1327G-166AXC	CY7C1327G-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
10	CY7C1327G-166AXCT	CY7C1327G-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
11	CY7C1329H-133AXC	CY7C1329H-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
12	CY7C1329H-133AXCT	CY7C1329H-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
13	CY7C1338G-100AXC	CY7C1338G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
14	CY7C1338G-100AXCT	CY7C1338G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
15	CY7C1347G-166AXC	CY7C1347G-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
16	CY7C1347G-166AXCT	CY7C1347G-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
17	CY7C1351G-100AXC	CY7C1351G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
18	CY7C1351G-100AXCT	CY7C1351G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
19	CY7C1351G-133AXC	CY7C1351G-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
20	CY7C1353G-100AXC	CY7C1353G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
21	CY7C1353G-100AXCT	CY7C1353G-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
22	CY7C1355C-133AXC	CY7C1355C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
23	CY7C1355C-133AXCT	CY7C1355C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
24	CY7C1357C-133AXC	CY7C1357C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
25	CY7C1357C-133AXCT	CY7C1357C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
26	CY7C1360S-166AXC	CY7C1360S-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
27	CY7C1360S-166AXCT	CY7C1360S-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
28	CY7C1361C-100AXC	CY7C1361C-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
29	CY7C1361C-100AXCT	CY7C1361C-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
30	CY7C1361C-133AXC	CY7C1361C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
31	CY7C1361C-133AXCT	CY7C1361C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
32	CY7C1361C-133AXI	CY7C1361C-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
33	CY7C1361C-133AXIT	CY7C1361C-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
34	CY7C1363C-133AXC	CY7C1363C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
35	CY7C1363C-133AXCT	CY7C1363C-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
36	CY7C1366C-166AXC	CY7C1366C-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
37	CY7C1366C-166AXCT	CY7C1366C-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
38	CY7C1367C-166AXC	CY7C1367C-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
39	CY7C1367C-166AXCT	CY7C1367C-166AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
40	CY7C1470BV25-167AXC	CY7C1470BV25-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
41	CY7C1470BV25-167AXCT	CY7C1470BV25-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
42	CY7C1470BV25-200AXC	CY7C1470BV25-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
43	CY7C1470BV25-250AXC	CY7C1470BV25-250AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
44	CY7C1470BV25-250AXI	CY7C1470BV25-250AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
45	CY7C1470BV33-167AXC	CY7C1470BV33-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
46	CY7C1470BV33-167AXCT	CY7C1470BV33-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu

47	CY7C1470BV33-167AXI	CY7C1470BV33-167AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
48	CY7C1470BV33-200AXC	CY7C1470BV33-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
49	CY7C1470BV33-200AXI	CY7C1470BV33-200AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
50	CY7C1470V25-200AXC	CY7C1470V25-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
51	CY7C1471BV25-133AXI	CY7C1471BV25-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
52	CY7C1471BV33-133AXC	CY7C1471BV33-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
53	CY7C1471BV33-133AXCT	CY7C1471BV33-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
54	CY7C1471V33-133AXC	CY7C1471V33-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
55	CY7C1472BV25-200AXC	CY7C1472BV25-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
56	CY7C1472BV25-200AXCT	CY7C1472BV25-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
57	CY7C1472BV33-167AXI	CY7C1472BV33-167AXIKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
58	CY7C1472V25-200AXC	CY7C1472V25-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
59	CY7C1472V33-200AXC	CY7C1472V33-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
60	CY7C1473BV33-133AXC	CY7C1473BV33-133AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
61	CY7C1480BV25-167AXC	CY7C1480BV25-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
62	CY7C1480BV33-167AXI	CY7C1480BV33-167AXIKG; subject to lead time	100-lead TQFP (14x20mm)	Au
63	CY7C1480BV33-200AXC	CY7C1480BV33-200AXCKG; subject to lead time	100-lead TQFP (14x20mm)	Au
64	CY7C1480V33-167AXC	CY7C1480V33-167AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
65	CY7C1481BV33-133AXI	CY7C1481BV33-133AXIKG; subject to lead time	100-lead TQFP (14x20mm)	Au
66	CY7C53120E4-40AXI	CY7C53120E4-40AXIKG; subject to lead time	44-lead TQFP (10x10mm)	Au
67	CY7C64713-100AXC	CY7C64713-100AXCKG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
68	CY7C67300-100AXI	CY7C67300-100AXIKGG	100-lead TQFP (14x14mm)	Au
69	CY7C67300-100AXIT	CY7C67300-100AXIKGG	100-lead TQFP (14x14mm)	Au
70	CY7C68013A-100AXC	CY7C68013A-100AXCKGG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
71	CY7C68014A-100AXC	CY7C68014A-100AXCKGG; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
72	CY8C22545-24AXI	CY8C22545-24AXIKG	44-lead TQFP (10x10mm)	Au
73	CY8C22545-24AXIT	CY8C22545-24AXIKG	44-lead TQFP (10x10mm)	Au
74	CY8C28513-24AXI	CY8C28513-24AXIKG	44-lead TQFP (10x10mm)	Au
75	CY8C28513-24AXIT	CY8C28513-24AXIKG	44-lead TQFP (10x10mm)	Au
76	CY8C28545-24AXI	CY8C28545-24AXIKG; subject to lead time	44-lead TQFP (10x10mm)	Au
77	CY8C28545-24AXIT	CY8C28545-24AXIKG; subject to lead time	44-lead TQFP (10x10mm)	Au
78	CY8C4125AXI-M445	CY8C4125AXI-M445KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
79	CY8C4125AXI-M445T	CY8C4125AXI-M445KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
80	CY8C4126AXI-M445	CY8C4126AXI-M445KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
81	CY8C4127AXI-M485	CY8C4127AXI-M485KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
82	CY8C4245AXI-M445	CY8C4245AXI-M445KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
83	CY8C4246AXI-M445	CY8C4246AXI-M445KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
84	CY8C4247AXI-M485	CY8C4247AXI-M485KG; subject to lead time	64-lead TQFP (14x14mm)	CuPdAu
85	CG7281AM	CG7281XM; subject to lead time	44-lead TQFP (10x10mm)	Au
86	CG7281AMT	CG7281XA; subject to lead time	44-lead TQFP (10x10mm)	Au
87	CG7937AA	CG7937XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
88	CG8438AA	CG8438XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
89	CG8438AAT	CG8438XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
90	CG8466AA	CG8466XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
91	CG8466AAT	CG8466XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
92	CG8678AA	CG8678XA; subject to lead time	100-lead TQFP (14x20mm)	CuPdAu
93	CP7758AT	CP7758XT; subject to lead time	44-lead TQFP (10x10mm)	Au

94	CP7758ATT	CP7758XA; subject to lead time	44-lead TQFP (10x10mm)	Au
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