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PRODUCT CHANGE NOTIFICATION

PCN: PCN172704

Date: July 09, 2017

Subject: Qualification of STATS ChipPAC Jiangyin (JSCC) as an Additional Assembly Site for Select BGA Products

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of STATS ChipPAC Jiangyin, China (JSCC) as an additional assembly site for select BGA products as STATS ChipPAC has announced that they will be discontinuing these packages at STATS ChipPAC Shanghai, China (SCC) due to a planned site shutdown. Both STATS ChipPAC sites are certified on the ISO9001 and TS16949 international quality standards.

The change will not affect current product structure, process flow, BOM material, equipment or operations as all are the same between the two production sites. There will be no change to the product quality, form, fit or function.

Cypress plans to transition from shipments of the original BCM marketing part number parts to shipments of the new CYW marketing part number parts in July 2017.

The BGA packages are assembled at STATS ChipPAC Jiangyin, China (JSCC) and STATS ChipPAC Shanghai, China (SCC) using the following Bill of Materials:

| Material | STATS ChipPAC Jiangyin, China (JSCC) Bill of Materials | STATS ChipPAC Shanghai, China (SCC) Bill of Materials |
|------------------|--|---|
| Mold Compound | KE-G1250LKDS-30 KE-G1250ULKDS-30 | KE-G1250LKDS-30 KE-G1250ULKDS-30 |
| Substrate | Laminate Substrate | Laminate Substrate |
| Die Attach Epoxy | ABLEBOND ATB120U ABLEBOND 2025D | ABLEBOND ATB120U ABLEBOND 2025D |
| Bond Wire | 0.8 mils 99.95% Cu/Pd-plated | 0.8 mils 99.95% Cu/Pd-plated |

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: 13

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 Plan #170601. This qualification report can be found as an attachment 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 STATS ChipPAC Jiangyin, China (JSCC) 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 STATS ChipPAC Jiangyin, China (JSCC) or other approved assembly sites.

Anticipated Impact:

Products assembled at the new site are completely compatible with existing products from a functional, parametric, and quality performance perspective.

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 |
|-------------|------------------------------|---------------------------------|
| 1 | CYW20702A1KWFBG | CYW20702A1KWFBGKS |
| 2 | CYW20702A1KWFBGT | CYW20702A1KWFBGKS |
| 3 | CYW20702B0KWFBG | CYW20702B0KWFBGKS |
| 4 | CYW20702B0KWFBGT | CYW20702B0KWFBGKS |
| 5 | CYW20705A1KWFBGT | CYW20705A1KWFBGKS |
| 6 | CYW20705B0KWFBG | CYW20705B0KWFBGKS |
| 7 | CYW20705B0KWFBGT | CYW20705B0KWFBGKS |
| 8 | CYW20713A1KUFBXG | CYW20713A1KUFBXGKS |
| 9 | CYW20730A1KFBGT | CYW20730A1KFBGKS |
| 10 | CYW20730A2KFBG | CYW20730A2KFBGKS |
| 11 | CYW20730A2KFBGT | CYW20730A2KFBGKS |
| 12 | CYW20738A1KFBGT | CYW20738A1KFBGKS |
| 13 | BCM20713A1KUFBXG | CYW20713A1KUFBXGKS |