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## PRODUCT CHANGE NOTIFICATION

**PCN:** PCN145305

**Date:** June 14, 2014

**Subject:** Qualification of Manufacturing Changes for MBR3 and PSoC 4000 Product Families

**To:** PCN ADMIN  
CYPRESS  
pcn\_adm@cypress.com

**Change Type:** Major

### Description of Changes:

Cypress announces the following qualifications for MBR3 and PSoC 4000 Product families.

- (1) HHGrace (Formerly Grace Semiconductor) Fab 3 China as an additional wafer fab location.
- (2) United Test and Assembly Center Ltd (UTAC) Thailand as an additional Assembly, Test and Finish site for 16/24 lead QFN packages.

The gray shading in the tables below shows the newly added wafer fab site and assembly site for MBR3 and PSoC 4000 Product families (CY8CMBR3XXX, CY8C4013 and CY8C4014). Effective 90 days from the date of this notification or upon receipt of customer acceptance, whichever comes first, all shipments of the affected part numbers will be sourced from any of the options below. There will be no changes to product datasheets.

Wafer Fab Site	CURRENT FAB/ASSEMBLY SITE	UPDATED FAB/ASSEMBLY SITE
		Cypress Minnesota (CMI)

Assembly Site	CY Philippines	ASE-KH	UTAC Thailand
Mold Compound	Nitto 7470LA	Sumitomo G700LA	Sumitomo G770HCD
Die Attach Epoxy	Henkel QMI519	Hitachi FH900	Henkel 8200T
Bond Wire	CuPd 0.8mil	CuPd 0.8mil	CuPd 0.8mil
Lead Finish	NiPdAu	Pure Sn	NiPdAu-Ag

**Benefit of Change:**

Qualification of alternate manufacturing sites is part of the ongoing flexible manufacturing initiative 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.

**Affected Part Numbers: 30****Affected Parts:**

See the attached 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:**

The changes listed in this PCN have been qualified through a series of tests documented in the Qualification Test Plan (QTP) reports indicated in the table below. Qualification reports can be found as attachments to this notification or by visiting [www.cypress.com](http://www.cypress.com) and typing the QTP number in the keyword search window.

Change	QTP No.	Availability
HHGrace Fab 3 Wafer Fab Qual	140404	Available. Attached with this notice
UTAC 16/24 QFN Package Qual	141704	Available. Attached with this notice
UTAC 16/24 QFN Test Qual	142002	July 2014
UTAC 16/24 QFN Finish Qual	142301	August 2014

**Sample Status:**

Qualification samples are not built ahead of time for all part numbers affect 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 samples built ahead of time 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 any of the qualified manufacturing sites.

**Anticipated Impact:**

Products manufactured at any new fabrication or assembly site or with copper wire bonds 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](mailto:pcn_adm@cypress.com).

Sincerely,  
Cypress PCN Administration

Item	Marketing Part Number	Sample Order Part Number	Package
1	CY8C4013LQI-411	Available to order; subject to lead time	16QFN
2	CY8C4013SXI-400	Available to order; subject to lead time	16SOIC
3	CY8C4013SXI-410	Available to order; subject to lead time	8SOIC
4	CY8C4013SXI-411	Available to order; subject to lead time	16SOIC
5	CY8C4014LQI-412	Available to order; subject to lead time	24QFN
6	CY8C4014LQI-421	Available to order; subject to lead time	16QFN
7	CY8C4014LQI-422	Available to order; subject to lead time	24QFN
8	CY8C4014LQI-SLT1	Available to order; subject to lead time	16QFN
9	CY8C4014LQI-SLT2	Available to order; subject to lead time	24QFN
10	CY8C4014SXI-411	Available to order; subject to lead time	16SOIC
11	CY8C4014SXI-420	Available to order; subject to lead time	8SOIC
12	CY8C4014SXI-421	Available to order; subject to lead time	16SOIC
13	CY8CMBR3002-SX1I	Available to order; subject to lead time	8SOIC
14	CY8CMBR3002-SX1IT	Available to order; subject to lead time	8SOIC
15	CY8CMBR3102-SX1I	Available to order; subject to lead time	8SOIC
16	CY8CMBR3102-SX1IT	Available to order; subject to lead time	8SOIC
17	CY8CMBR3106S-LQXI	CY8CMBR3106S4-LQXIKU	24QFN
		CY8CMBR3106S5-LQXIKU	24QFN
18	CY8CMBR3106S-LQXIT	CY8CMBR3106S4-LQXIKU	24QFN
		CY8CMBR3106S5-LQXIKU	24QFN
19	CY8CMBR3108-LQXI	CY8CMBR31084-LQXIKU	16QFN
		CY8CMBR31085-LQXIKU	16QFN
20	CY8CMBR3108-LQXIT	CY8CMBR31084-LQXIKU	16QFN
		CY8CMBR31085-LQXIKU	16QFN
21	CY8CMBR3110-SX2I	Available to order; subject to lead time	16SOIC
22	CY8CMBR3110-SX2IT	Available to order; subject to lead time	16SOIC
23	CY8CMBR3116-LQXI	CY8CMBR31164-LQXIKU	24QFN
		CY8CMBR31165-LQXIKU	24QFN
24	CY8CMBR3116-LQXIT	CY8CMBR31164-LQXIKU	24QFN
		CY8CMBR31165-LQXIKU	24QFN
25	CY8CMBR3145-LQXI	CY8CMBR31454-LQXIKU	16QFN
		CY8CMBR31455-LQXIKU	16QFN
		CY8CMBR31454-LQXIKG	16QFN
		CY8CMBR31455-LQXIKG	16QFN
26	CY8CMBR3145-LQXIT	CY8CMBR31454-LQXIKU	16QFN
		CY8CMBR31455-LQXIKU	16QFN
		CY8CMBR31454-LQXIKG	16QFN
		CY8CMBR31455-LQXIKG	16QFN
27	CY8CMBR3155-LQXI	CY8CMBR31554-LQXIKUT	16QFN
		CY8CMBR31555-LQXIKUT	16QFN
		CY8CMBR31554-LQXIKGT	16QFN
		CY8CMBR31555-LQXIKGT	16QFN
28	CY8CMBR3155-LQXIT	CY8CMBR31554-LQXIKUT	16QFN
		CY8CMBR31555-LQXIKUT	16QFN
		CY8CMBR31554-LQXIKGT	16QFN
		CY8CMBR31555-LQXIKGT	16QFN
29	CY8CMBR3175-LQXI	CY8CMBR31754-LQXIKUT	16QFN
		CY8CMBR31755-LQXIKUT	16QFN
		CY8CMBR31754-LQXIKGT	16QFN
		CY8CMBR31755-LQXIKGT	16QFN
30	CY8CMBR3175-LQXIT	CY8CMBR31754-LQXIKUT	16QFN
		CY8CMBR31755-LQXIKUT	16QFN
		CY8CMBR31754-LQXIKGT	16QFN
		CY8CMBR31755-LQXIKGT	16QFN

