



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

## PRODUCT CHANGE NOTIFICATION

**PCN:** PCN194403

**Date:** November 04, 2019

**Subject:** Qualification of SMIC as an Additional Wafer Fab Site and Marketing Part Number Change for Select MM MCU Products

**Change Type:** Major

**Description of Change:**

Cypress announces the qualification of Semiconductor Manufacturing International Corp. (SMIC, No.18, WenChang Road, Beijing Economic-Technological Development Area, Beijing, China) as an additional wafer fab site for select MM MCU products that are currently fabricated at United Semiconductor Japan Co., Ltd. (USJC).

The new datasheet can be found as an attachment to this PCN. Replacement of USJC and SMIC part numbers can be referenced with the affected parts list.

**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:** 11

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](http://www.cypress.com) and typing the QTP number in the keyword search window.

QTP Number	Qualification
170609	Qualification of 90nm Technology (CU100F_UL) Microcontroller Product family at SMIC
174602	LQFP Package Qualification at TongFu Microelectronics with SMIC 90nm technology (CU100F)
184001	LQFP Package Qualification at TongFu Microelectronics with SMIC 90nm technology (CU100F_UL)
184507	LQFP Package Qualification at TongFu Microelectronics with SMIC 90nm technology (CU100F)

**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 SMIC sample ordering part numbers. Sample ordering part numbers are all subject to lead time. 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 Commercial, Industrial and Automotive non-PPAP part numbers in the attached file will be supplied from SMIC.

**Anticipated Impact:**

Products fabricated 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](mailto:pcn_adm@cypress.com).

Sincerely,

Cypress PCN Administration

<b>Item</b>	<b>Marketing Part Number</b>	<b>New Part Number</b>	<b>Last Time Buy Date</b>	<b>Last Time Ship Date</b>
1	CY9AF141LAPMC1-G-JNE2	CY9AF141LAPMC1-G-MNE2	20-Apr-20	20-Oct-20
2	CY9AF141MAPMC-G-JNE2	CY9AF141MAPMC-G-MNE2	20-Apr-20	20-Oct-20
3	CY9AF142LAPMC1-G-JNE2	CY9AF142LAPMC1-G-MNE2	20-Apr-20	20-Oct-20
4	CY9AF144MAPMC-G-JNE2	CY9AF144MAPMC-G-MNE2	20-Apr-20	20-Oct-20
5	CY9AF144NAPMC-G-JNE2	CY9AF144NAPMC-G-MNE2	20-Apr-20	20-Oct-20
6	CY9AF144NAPMC-G-JNK1E2	CY9AF144NAPMC-G-MNK1E2	20-Apr-20	20-Oct-20
7	CY9AF342LAPMC-G-JNE2	CY9AF342LAPMC-G-MNE2	20-Apr-20	20-Oct-20
8	CY9AF344MAPMC-G-JNE2	CY9AF344MAPMC-G-MNE2	20-Apr-20	20-Oct-20
9	CY9AF344NAPMC-G-JNE2	CY9AF344NAPMC-G-MNE2	20-Apr-20	20-Oct-20
10	CY9AFA42MAPMC-G-JNE2	CY9AFA42MAPMC-G-MNE2	20-Apr-20	20-Oct-20
11	CY9AFB44NAPMC-G-JNE2	CY9AFB44NAPMC-G-MNE2	20-Apr-20	20-Oct-20