



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

## PRODUCT CHANGE NOTIFICATION

**PCN:** PCN175001

**Date:** December 12, 2017

**Subject:** Qualification of Leadframe Design Change for 48-Lead QFN Pb-free Products at TongFu Microelectronics Co., Ltd.

**To:**

**Change Type:** Minor

### Description of Change:

Cypress announces the qualification of a new leadframe design for 48-Lead QFN Pb-Free products at TongFu Microelectronics Co., Ltd. (TFME-China). TFME-China is a world-class assembly facility, qualified to build standard grade products consistent with AEC-Q100. The qualification of this leadframe design change will enable Cypress to tailor assembly operations to meet our customers' stringent quality and reliability requirements in our effort to continually provide world-class service.

48-Lead QFN Pb-Free products will be assembled at TFME-China using the following bill of materials. There will be no changes to the material composition or the suppliers.

Material	Current BOM	New BOM
Lead Frame	QFN48DA	QFN48DB
Mold Compound	Sumitomo EMEG770HCD	Sumitomo EMEG770HCD
Die Attach Material	Hitachi EN4600B	Hitachi EN4600B
Bond Wire	0.9mil & 1.0mil Au	0.9mil & 1.0mil Au

### Benefit of Change:

Qualification of this leadframe design will provide better quality. The change is only on the lead cut area and not affecting other form, fit or function of the package. Please refer to the attached file for a detailed description of the design change.

### Affected Parts: 14

**Part Numbers Affected:** 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:**

As per specific list of major changes, this package is being qualified through a series of tests planned in the Qualification Test Plan QTP #172801. The report for this QTP can be found as an attachment to this PCN or by visiting [www.cypress.com](http://www.cypress.com) and typing the QTP number in the keyword search window.

**Sample Status:**

Qualification samples have been built ahead of time for some part numbers affected by this change. Please review the attached 'Affected parts list' file for the list of affected part numbers with their associated TFME-China sample ordering part numbers. Sample requests for products with "Subject to lead time" are not built ahead of time, they 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:**

For Automotive PPAP parts this change will be effective upon customer approval. For all other parts this change will be effective 90 days from the date of this notification.

**Anticipated Impact:**

None anticipated. Customers may receive parts from TFME-China or other approved assembly sites.

**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>Sample Ordering Part Number</b>
1	MB39A301AWQN-G-JN-ERE1	MB39A301AWQN-ES-JNE1, subject to lead time
2	MB39A301WQN-G-JK-ERE1	MB39A301WQN-ES-JKE1, subject to lead time
3	MB39A301WQN-G-JN-EFE1	MB39A301WQN-ES-JNE1, subject to lead time
4	MB39A301WQN-G-JN-ERE1	MB39A301WQN-ES-JNE1, subject to lead time
5	MB39A302WQN-G-JN-EFE1	MB39A302WQN-ES-JNE1, subject to lead time
6	MB39A302WQN-G-JN-ERE1	MB39A302WQN-ES-JNE1, subject to lead time
7	MB39A302WQN-G-JNK1ERE1	MB39A302WQN-ES-JNE1, subject to lead time
8	MB8AA4063WQN-GS-JKERE1	MB8AA4063WQN-ES-JKE1, subject to lead time
9	MB8AA4521WQN-GS-JKERE1	CY8AA4521WQN-ES-JKE1
10	MB95F398HWQN-G-SNE1	MB95F398HWQN-ES-SNE1, subject to lead time
11	MB95F398KWQN-G-SNE1	MB95F398KWQN-ES-SNE1, subject to lead time
12	MB95F694KWQN-G-SNE1	MB95F694KWQN-ES-SNE1, subject to lead time
13	MB95F698KNWQN-G-SNE1	MB95F698KNWQN-ES-SNE1, subject to lead time
14	MB95F698KWQN-G-SNE1	MB95F698KWQN-ES-SNE1, subject to lead time