



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

PRODUCT CHANGE NOTIFICATION

PCN: PCN193805

Date: September 17, 2019

Subject: Qualification of Low-Power Design Revision to Select 65nm Industrial-Grade 16Mb MoBL Products at UMC

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of an all mask design change to the existing 2.2V-3.6V industrial grade 16Mb MoBL product to improve standby current (I_{SB2}) from 16uA to 8uA at 85C. The new die revision also has superior data retention current (I_{CCDR}) and active current (I_{CC}) specifications. The updated datasheet is attached to this notification. This datasheet will be published on the Cypress website approximately 90 days after this notification and it will be communicated through a PIN. There is no change to the existing marketing part numbers.

Benefit of Change:

The improved product has superior standby current (I_{SB2}), data retention current (I_{CCDR}) and active current (I_{CC}) specification.

Affected Part Numbers: 24

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:

The improved die revision was qualified through a series of tests identified in the Qualification Test Plan QTP#181403. The QTP report can be found as attachments to this notification or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Sample Status:

Please review the attached 'Affected Parts List' file for a list of affected part numbers with their associated UMC 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, all shipments of the affected part numbers will meet the improved datasheet.

Anticipated Impact:

Products fabricated at UMC are completely compatible with the existing product from a form, fit, function, quality, performance and parametric 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	Sample Availability
1	CY62162G30-45BGXI	CY62162G309-45BGXI	Subject to leadtime
2	CY62162G30-45BGXIT	CY62162G309-45BGXI	Subject to leadtime
3	CY62167G30-45BVXI	CY62167G309-45BVXI	Available
4	CY62167G30-45BVXIT	CY62167G309-45BVXI	Available
5	CY62167G30-45ZXI	CY62167G309-45ZXI	Available
6	CY62167G30-45ZXIT	CY62167G309-45ZXI	Available
7	CY62167GE30-45BV1XI	CY62167GE309-45BV1XI	Subject to leadtime
8	CY62167GE30-45BV1XIT	CY62167GE309-45BV1XI	Subject to leadtime
9	CY62167GE30-45BVXI	CY62167GE309-45BVXI	Subject to leadtime
10	CY62167GE30-45BVXIT	CY62167GE309-45BVXI	Subject to leadtime
11	CY62167GE30-45ZXI	CY62167GE309-45ZXI	Subject to leadtime
12	CY62167GE30-45ZXIT	CY62167GE309-45ZXI	Subject to leadtime
13	CY62167GN30-45BVXI	CY62167GN309-45BVXI	Subject to leadtime
14	CY62167GN30-45BVXIT	CY62167GN309-45BVXI	Subject to leadtime
15	CY62167GN30-45ZXI	CY62167GN309-45ZXI	Subject to leadtime
16	CY62167GN30-45ZXIT	CY62167GN309-45ZXI	Subject to leadtime
17	CY62168G30-45BVXI	CY62168G309-45BVXI	Subject to leadtime
18	CY62168G30-45BVXIT	CY62168G309-45BVXI	Subject to leadtime
19	CY62168GE30-45BVXI	CY62168GE309-45BVXI	Subject to leadtime
20	CY62168GE30-45BVXIT	CY62168GE309-45BVXI	Subject to leadtime
21	CY62168GN30-45BVXI	CY62168GN309-45BVXI	Subject to leadtime
22	CY62168GN30-45BVXIT	CY62168GN309-45BVXI	Subject to leadtime
23	CG8785AM	CG8785ZM	Subject to leadtime
24	CG8785AMT	CG8785ZM	Subject to leadtime