

Product/Process Change Notification

N° 2023-111-A

Dear customer,

please find attached our Infineon Technologies AG PCN:

Several changes affecting the 4-Kbit to 256-Kbit Industrial Grade F-RAM products

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before 2024-09-04.
- Infineon aligns with the widely-recognized JEDEC STANDARD "JESD46", which stipulates:
"Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change."

Your prompt reply will help Infineon to assure a smooth and well-executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.

Infineon Technologies AG

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Chairman of the Supervisory Board Dr. Herbert Diess

Management Board Jochen Hanebeck (CEO), Elke Reichart, Dr. Sven Schneider, Andreas Urschitz, Dr. Rutger Wijburg

Registered office Neubiberg Commercial register Amtsgericht München HRB 126492

Product/Process Change Notification

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Products affected

Please refer to attached affected product list PCN_2023-111-A_[customer-no].pdf

Detailed change information

Subject: Several changes affecting the 4-Kbit to 256-Kbit Industrial Grade F-RAM products

Reason/Motivation: New design revision that incorporates advantages of Infineon's Excelon™ architecture to the 4 Kb to 64 Kb devices. Migrating to the new die revision will enable customers to benefit from continued product supply and long term technical support on these products.

Ensure delivery capability by establishing alternative assembly and packaging components to assure continuity of supply and enable flexible manufacturing.

Due to continuously raising demand for Infineon FRAM products, we have extended our final test capacity to Greatek Taiwan as additional location of our BE test cluster, to assure continuity of supply.

Description		<u>Old</u>	<u>New</u>
Design changes in active elements	DESIGN: 4-Kbit, 16-Kbit & 64-Kbit F-RAM:	Array old design	4-Kbit, 16-Kbit & 64-Kbit F-RAM: Array old design AND Array new design
	Design changes in routing	Old design die size	4-Kbit, 16-Kbit & 64-Kbit F-RAM: Old design die size AND New design die size
	Die shrink	Old array design	4-Kbit, 16-Kbit & 64-Kbit F-RAM: Old array design AND New array design
PROCESS - ASSEMBLY:	4-Kbit to 256-Kbit F-RAM		4-Kbit to 256-Kbit F-RAM
Change of wire bonding	(applicable only for UTAC): Old design: CuPd		(applicable only for UTAC): Old design: CuPd AND New design: CuPdAu

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PROCESS - ASSEMBLY: 4-Kbit to 256-Kbit F-RAM
Change of mold compound / encapsulation material (applicable only for UTAC): G600

4-Kbit to 256-Kbit F-RAM
 (applicable only for UTAC):
 G600
 AND
 G633CB

PROCESS - ASSEMBLY: 4-Kbit to 256-Kbit F-RAM
Change of specified assembly process sequence (deletion and/or additional process step) (applicable only for UTAC):
 Old dejunk plating and trim & form process

4-Kbit to 256-Kbit F-RAM
 (applicable only for UTAC):
 Old dejunk plating and trim & form process
 AND
 New dejunk plating and trim & form process

TEST FLOW: 4-Kbit, 16-Kbit & 64-Kbit F-RAM:
Move of all or part of electrical wafer test and/or final test to a different test site UTAC Thai Ltd (UTL1), Bangkok, Thailand

4-Kbit, 16-Kbit & 64-Kbit F-RAM:
 UTAC Thai Ltd (UTL1), Bangkok, Thailand
 AND
 Greatek Electronics Inc, Zhunan, Taiwan

Product identification

Traceability assured via date code.
 No change in SP ordering number.

Anticipated impact of change

Based on the qualification performed, Infineon does not expect any negative impact on quality, function and reliability. No change in form, fit and function expected.

Attachments

PCN_2023-111-A_[customer-no].pdf affected product list

Time schedule

Final qualification report	available
First samples available	on request
Intended start of delivery [1]	2025-01-31
Last order date (LOD) [2]	2025-01-31
Last delivery date (LDD) [3]	2025-07-31

[1] Provided date or earlier after customer approval.

[2] Last date where orders for unchanged products will be accepted.

[3] Last date for delivery of unchanged products. Delivery of changed products can be earlier (see Intended start of delivery) and depends on approval.

If you have any questions, please do not hesitate to contact your local sales office.