

Product Change Notification 32958 is complete and has been sent to approved customers. Please e-mail QA_PCN_SUPPORT@micron.com if you have any questions regarding this Product Change Notification.

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eMMC v4.51 Automotive 4GB (J54U) & 8GB (J55U) Silicon Improvement, Assembly Site Transfer, FW update, Capacitor Reduction and 2DID Barcode Addition

PCN: 32958

Published: 2018-10-11

Revision History:

Revision 1, 2019-01-11: This document supersedes the original PCN #32958, dated 2018/10/11. Sample and Qual Data Availability dates and also the Last Purchase and Last Shipment dates have been changed.

Type: Manufacturing Site – Change or Addition, Firmware Revision, Product Mark/label Change, End of Life

Description: Micron is implementing silicon improvement by converting bond pad material for legacy NAND devices, transferring assembly site, updating FW, reduction of capacitors and addition of 2DID barcode mark for better traceability. The product will be identified by new Marketing Part numbers. Existing part numbers will be discontinued.

1. The bond pad metallization will convert from Ni/Pd to Aluminum (Al). The change will not impact the final packaged product. Other DRAM/NAND technologies at Fab 6 use the Al bond pad process and is proven to be more robust.

WAS	IS
Layers:	Layers:

Metal 2: Cu+ Ni/Pd (Plating)	Metal 2: Al (Sputter)
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2. Assembly site transfer from:

Current: Amkor Technology Korea, 957 Daechon-dong, Buk-gu, Gwangju, Korea

New: Micron Semiconductor Malaysia Sdn. Bhd., Tanjung Agas Industrial Area, Muar, Johor 84000, Malaysia

3. In line with Micron's commitment to provide high quality & reliability Managed NAND products to our customers, Micron is going to release a new firmware that makes improvements related to eMMC data/system management. The revision will improve product quality and reliability robustness.

4. Micron will remove redundant internal capacitors from eMMC package. Micron Datasheets indicate use of external capacitors on specific eMMC pins. There is no need to duplicate these capacitors in the eMMC package.

5. For improved unit-level traceability, 2DID barcode will be added to the part mark. Please refer to page 6 in CSN-11: Product Marks/Product and Packaging Labels for component marking details.

Reason: Improved Product Quality and Reliability, Manufacturing Efficiency, Supply Flexibility/Security

Product Affected: eMMC v4.51 Automotive 4GB (J54U) & 8GB (J55U)

Affected Micron Part Number

Recommended Replacement

Customer Part Number

Component

MTFC4GLWDM-4M AAT Z

MTFC4GLWDM-4M AAT A

MTFC8GLWDM-AIT Z

MTFC8GLWDM-AIT A

MTFC8GLWDQ-3L AAT Z

MTFC8GLWDQ-3L AAT A

MTFC8GLWDQ-3L AIT Z

MTFC8GLWDQ-3L AIT A

MTFC8GLWDQ-3M AIT Z

MTFC8GLWDQ-3M AIT A

*Materials that have been ordered are in **bold**.

Method of Identification:	New Marketing Part numbers as well as master shipping label will indicate country of origin from Korea to Malaysia.
Micron Sites Affected:	MMY - Muar_Malaysia
Sample Available:	2019-02-04
Qual Data Available:	2019-02-04
Last Purchase Date*:	2019-06-28
Last Shipment Date:	2019-12-27

*Orders placed prior to the last purchase date are subject to current inventory levels, which may vary based on market conditions and customer demand. Early orders are encouraged. Any products from a previously accepted order that have not shipped as of the last purchase date may be considered non-cancelable/non-returnable at Micron's discretion.

Additionally, Micron may accept orders for products following the last purchase date, subject to current inventory levels, which may vary based on market conditions and customer demand, and such products may be considered non-cancelable/non-returnable at Micron's discretion.

NOTE: Per JEDEC Standard JESD46-C Section 3.2.3; lack of acknowledgment of this PCN within 30 days constitutes acceptance of change.

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