



**MACRONIX INTERNATIONAL CO., LTD.**

## Product/Process Change Notice

PCN # P-2107-0005

Date: 2021/7/28

Dear Customer:

Please be informed that Macronix is going to use die with RDL (Re-direction Layer, or Metal 4) for MX25L1606EM2I-12G/MX25R3235FM1IL0/MX25R3235FM2IL0/MX25V1006FM1I/MX25V1006FZUI products. The die with the RDL (Re-direction Layer, or Metal 4) layer vs. without, the only difference is it has an extra RDL layer to re-layout the pad locations for wire-bond of KGD product options. The die with RDL also kept original pad locations and can be used for package product options (without RDL), with the same wire-bonds and functionality. Other than the RDL layer, there is no other changes on the product design nor on the specifications.

The detailed information about this change is described in the following pages. This process change has passed Macronix' characterization.

If you have any questions, concerns, or requests about this change, please contact your local Macronix Sales Representatives within 30 days, otherwise Macronix will assume customer received the PCN with no comments and the change is acceptable to the customer. Macronix follows JEDEC J-STD-046, which stipulates: ".....Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change".

Thank you.

Macronix International Co., Ltd.

旺宏電子股份有限公司

(Note: For the customers who receive Macronix PCNs via distributors, Macronix will assist the distributors to convey the PCNs to the customers. It is each distributor's responsibility to communicate and track the responses of each customers and report back to Macronix, the distributor shall assume full responsibilities if failed to do so.)

**PCN No.:** P-2107-0005**Issue Date :** 2021/7/28**Subject:** Die with RDL (metal 4 layer) to be used also for MX25L1606EM2I-12G/MX25R3235FM1IL0/MX25R3235FM2IL0/MX25V1006FM1I/MX25V1006FZUI products.**Affected Macronix Part No.:**

MX25L1606EM2I-12G

MX25R3235FM1IL0

MX25R3235FM2IL0

MX25V1006FM1I

MX25V1006FZUI

**Change Category :** Product option**Reason of Change:** To increase production capacity and flexibility.**Before Change :**

Product with standard die (no RDL).

**After Change :**

(1) Product with standard die.

(2) Product with RDL-die(with Metal 4 layer)

**Assessment of Change:**

1. The purpose of the RDL is to re-layout the pad locations to allow wire-bond spacing for KGD product option, there is no other changes on the product design nor on the specifications.
2. The change has no impact on Fit, Form, Function, and Quality/Reliability of the product.

**Schedule:**

CS sample available date: 2021/8/15

Shipment Start date: 2021/9/1 (for customers who approved the PCN)