

**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

|                      |                                                                                         |                                      |
|----------------------|-----------------------------------------------------------------------------------------|--------------------------------------|
| 1.1 Company          |        | STMicroelectronics International N.V |
| 1.2 PCN No.          | MDG/17/10270                                                                            |                                      |
| 1.3 Title of PCN     | Additional Amkor ATT (Taiwan) back-end site - STM32L073x 192K products in WLCSP package |                                      |
| 1.4 Product Category | STM32L073x 192K products in WLCSP                                                       |                                      |
| 1.5 Issue date       | 2017-12-04                                                                              |                                      |

**2. PCN Team**

|                                  |                      |
|----------------------------------|----------------------|
| <b>2.1 Contact supplier</b>      |                      |
| 2.1.1 Name                       | MARSHALL DAVE        |
| 2.1.2 Phone                      |                      |
| 2.1.3 Email                      | dave.marshall@st.com |
| <b>2.2 Change responsibility</b> |                      |
| 2.2.1 Product Manager            | Michel BUFFA         |
| 2.1.2 Marketing Manager          | Veronique BARLATIER  |
| 2.1.3 Quality Manager            | Pascal NARCHE        |

**3. Change**

|              |                                                                                                                                                 |                            |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 3.1 Category | 3.2 Type of change                                                                                                                              | 3.3 Manufacturing Location |
| Transfer     | Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Assembly site (SOP 2617) | Amkor ATT (Taiwan)         |

**4. Description of change**

|                                                                                       |                                                     |                                                                                                                                                                                |
|---------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                       | Old                                                 | New                                                                                                                                                                            |
| 4.1 Description                                                                       | Back-end plant :<br>- Stats ChipPAC SCS (Singapore) | Back-end plants :<br>- Stats ChipPAC SCS (Singapore) - existing source<br>- Amkor ATT (Taiwan) - additional source - Same Bill of Materials (BOM) - Line already in production |
| 4.2 Anticipated Impact on form,fit, function, quality, reliability or processability? | no change                                           |                                                                                                                                                                                |

**5. Reason / motivation for change**

|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| 5.1 Motivation       | Those changes will improve and secure service through double-sourcing. |
| 5.2 Customer Benefit | DOUBLE SOURCING                                                        |

**6. Marking of parts / traceability of change**

|                 |                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 6.1 Description | The marking composition indicated on the products is changing :<br>- Country Of Origin changes from SGP (Singapore) to TWN (Taiwan) |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|

**7. Timing / schedule**

|                                     |              |
|-------------------------------------|--------------|
| 7.1 Date of qualification results   | 2017-11-29   |
| 7.2 Intended start of delivery      | 2018-03-01   |
| 7.3 Qualification sample available? | Upon Request |

**8. Qualification / Validation**

|                                                    |                                                                                      |            |            |
|----------------------------------------------------|--------------------------------------------------------------------------------------|------------|------------|
| 8.1 Description                                    | 10270 MDG-MCD RER1412 V1.1- PCN8460 PCN10270- Additional Amkor ATT site for WL...pdf |            |            |
| 8.2 Qualification report and qualification results | Available (see attachment)                                                           | Issue Date | 2017-12-04 |

| 9. Attachments (additional documentations)                                                                                                                    |                         |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|
| 10270 Public product.pdf<br>10270 PCN10270_Additional information.pdf<br>10270 MDG-MCD RER1412 V1.1- PCN8460 PCN10270- Additional Amkor ATT site for WL...pdf |                         |                          |
| 10. Affected parts                                                                                                                                            |                         |                          |
| 10. 1 Current                                                                                                                                                 |                         | 10.2 New (if applicable) |
| 10.1.1 Customer Part No                                                                                                                                       | 10.1.2 Supplier Part No | 10.1.2 Supplier Part No  |
|                                                                                                                                                               | STM32L072CZY6TR         |                          |

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