


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

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| 1.1 Company |  | STMicroelectronics International N.V |
| 1.2 PCN No. | MDG/20/12191 | |
| 1.3 Title of PCN | ASE Kaohsiung (Taiwan) additional source and Product enhancement for STM32MP15x in LFBGA18X18 package source | |
| 1.4 Product Category | LFBGA18X18 for STM32MP15x products | |
| 1.5 Issue date | 2020-06-16 | |

2. PCN Team

| | |
|----------------------------------|----------------------------|
| 2.1 Contact supplier | |
| 2.1.1 Name | ROBERTSON HEATHER |
| 2.1.2 Phone | +1 8475853058 |
| 2.1.3 Email | heather.robertson@st.com |
| 2.2 Change responsibility | |
| 2.2.1 Product Manager | Ricardo Antonio DE SA EARP |
| 2.1.2 Marketing Manager | Veronique BARLATIER |
| 2.1.3 Quality Manager | Pascal NARCHE |

3. Change

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| 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) | Crolles 300 (France) AMKOR ATK (Korea) ASE KaoHsiung (Taiwan) |

4. Description of change

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| | Old | New |
| 4.1 Description | Product revision B (cut 2.0) Limitations as described in Errata Sheet ES0438 Revision 3 - November 2019 "STM32MP151x STM32MP153x STM32MP157x" Summary of Device errata Package source: - Amkor ATK (Korea) | New Product Revision Z (cut 2.1) - New Errata sheet ES0438 Revision 4 - January 2020 "STM32MP151x STM32MP153x STM32MP157x" Summary of Device errata Package dynamic warpage improvement - Amkor ATK (Korea) - existing source - ASE Kaohsiung (Taiwan) - Additional source |
| 4.2 Anticipated Impact on form,fit, function, quality, reliability or processability? | Function enhancement (New die revision from B to Z) Additional Assembly site | |

5. Reason / motivation for change

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| 5.1 Motivation | New Die revision: product enhancement New Assembly Site: Due to the success on the market of STM32 devices, ST Microcontrollers Division decided to qualify an additional back-end site to maintain state of the art service level to our customers thanks to extra capacity. |
| 5.2 Customer Benefit | CAPACITY INCREASE |

6. Marking of parts / traceability of change

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| 6.1 Description | Please refer to PCN12191 Additional information attached document. |
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7. Timing / schedule

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| 7.1 Date of qualification results | 2020-09-21 |
| 7.2 Intended start of delivery | 2020-10-20 |
| 7.3 Qualification sample available? | Upon Request |

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| 8. Qualification / Validation | | | |
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|---|---|-------------------|------------|
| 8.1 Description | 12191 MDG-MCD-RERMCD2008 -RERMCD2010 -PCN12191-reliability plan.pdf | | |
| 8.2 Qualification report and qualification results | Available (see attachment) | Issue Date | 2020-06-16 |

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| 9. Attachments (additional documentations) | | | |
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| 12191 Public product.pdf 12191 MDG-MCD-RERMCD2008 -RERMCD2010 -PCN12191-reliability plan.pdf 12191 PCN12191_Additional information.pdf |
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| 10. Affected parts | | |
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| 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 |
| | STM32MP151AAA3 | |
| | STM32MP151CAA3 | |
| | STM32MP153AAA3 | |
| | STM32MP153CAA3 | |
| | STM32MP157AAA3 | |
| | STM32MP157CAA3 | |

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