

## PRODUCT / PROCESS CHANGE INFORMATION

### 1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.		ADG/18/11115
1.3 Title of PCI		M55 Microcontrollers: 2D Marking Introduction on QFP 10x10 Packages (ST Malta)
1.4 Product Category		see list
1.5 Issue date		2018-09-28

### 2. PCI 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	Luca RODESCHINI
2.1.2 Marketing Manager	Daniele Alfredo BRAMBILLA
2.1.3 Quality Manager	Alberto MERVIC

### 3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Methods	Traceability (marking content, company logo, etc...)	ST Kirkop (Malta)

### 4. Description of change

	Old	New
4.1 Description	No 2D marking	Additional 2D marking
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	No impact	

### 5. Reason / motivation for change

5.1 Motivation	Quality improvement, by introducing additional traceability information at marking level. Extended traceability will allow better backward analyses and more detailed feedbacks on process performance
5.2 Customer Benefit	QUALITY IMPROVEMENT

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

6.1 Description	Date Code and direct product marking
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### 7. Timing / schedule

7.1 Date of qualification results	2018-09-26
7.2 Intended start of delivery	2019-01-01
7.3 Qualification sample available?	Upon Request

### 8. Qualification / Validation

8.1 Description	
8.2 Qualification report and qualification results	In progress

### 9. Attachments (additional documentations)

11115 Public product.pdf 11115 Details.pdf
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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
	SPC570S40E1CEFAY	
	SPC570S50E1CEFAR	
	SPC58EC80E1Q0C0Y	

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## Public Products List

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**PCI Title :** M55 Microcontrollers: 2D Marking Introduction on QFP 10x10 Packages (ST Malta)

**PCI Reference :** ADG/18/11115

**Subject :** Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

SPC572L64F2BC6AY	SPC570S50E1CEFAR	SPC570S50E1CEFAY
SPC582B54E1DG00X	SPC58EC80E1Q0C0Y	SPC572L64F2BC6AR
SPC570S40E1CEFAR	SPC570S40E1CEFAY	SPC582B60E1CD00X
SPC582B50E1BD00X	SPC582B50E1DG00X	SPC582B60E1MH00Y



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## PRODUCT/PROCESS CHANGE INFORMATION

<b>SUBJECT</b>	<b>M55 MICROCONTROLLERS: 2D MARKING INTRODUCTION ON QFP 10X10 PACKAGES (ST MALTA)</b>																
<b>IMPACTED PRODUCTS</b>	<p>ST M55 Technology Microcontrollers assembled in the following packages:</p> <table border="1"> <thead> <tr> <th>PACKAGE DESCRIPTION</th> <th>PRODUCT</th> </tr> </thead> <tbody> <tr> <td rowspan="9">TQFP 64 10x10x1.0 1.0 ExPad Down</td> <td>SPC570S40E1CEFAR</td> </tr> <tr> <td>SPC570S40E1CEFAY</td> </tr> <tr> <td>SPC570S40E1CEFBR</td> </tr> <tr> <td>SPC570S40E1CEFBY</td> </tr> <tr> <td>SPC570S50E1CE1AR</td> </tr> <tr> <td>SPC570S50E1CEFAR</td> </tr> <tr> <td>SPC570S50E1CEFAY</td> </tr> <tr> <td>SPC570S50E1DEFAR</td> </tr> <tr> <td>SPC570S50E1DEFAY</td> </tr> <tr> <td rowspan="2">TQFP-EP 80L 10X10X1.0 EXPADDOWN</td> <td>SPC572L64F2BC6AR</td> </tr> <tr> <td>SPC572L64F2BC6AY</td> </tr> </tbody> </table>		PACKAGE DESCRIPTION	PRODUCT	TQFP 64 10x10x1.0 1.0 ExPad Down	SPC570S40E1CEFAR	SPC570S40E1CEFAY	SPC570S40E1CEFBR	SPC570S40E1CEFBY	SPC570S50E1CE1AR	SPC570S50E1CEFAR	SPC570S50E1CEFAY	SPC570S50E1DEFAR	SPC570S50E1DEFAY	TQFP-EP 80L 10X10X1.0 EXPADDOWN	SPC572L64F2BC6AR	SPC572L64F2BC6AY
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<b>MANUFACTURING STEP</b>	Assembly																
<b>INVOLVED PLANT</b>	ST Malta Plant																
<b>CHANGE REASON</b>	Quality improvement, by introducing additional traceability information at marking level. Extended traceability will allow better backward analyses and more detailed feedbacks on process performance.																

<b>CHANGE DESCRIPTION</b>	<p>Additional 2D marking on component (further to the standard one), allowing progressive enhancement of product traceability (diffusion lot, wafer number, dice coordinates, etc.). Given the package dimension, current standard marking (contents unchanged) has been reallocated to provide additional room for the 2D mark. An example is shown below:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Current Marking</p> </div> <div style="text-align: center;">  <p>New 2D Marking</p> </div> </div>
<b>TRACEABILITY</b>	Date Code and direct product marking.
<b>VALIDATION</b>	Change concerns product appearance only, with no impact on form, fit and function. No changes in process and / or equipment are required.
<b>CURRENT PRODUCTS</b>	New 2D marking will be progressively implemented on all concerned products and will definitively replace the current one.
<b>REPORTS</b>	Not applicable.
<b>IMPLEMENTATION</b>	Three months from this change information.