


PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	ADG/18/11116	
1.3 Title of PCI	M55 Microcontrollers: 2D Marking Introduction on QFP (14x14 >14x14) 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 analysis 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	2018-10-31
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)

11116 Public product.pdf
11116 Details.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
	SPC58EC80E5QMC0Y	

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Public Products List

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PCI Title : M55 Microcontrollers: 2D Marking Introduction on QFP (14x14 >14x14) Packages (ST Malta)

PCI Reference : ADG/18/11116

Subject : Public Products List

Dear Customer,

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

SPC572L64E3BC6AY	SPC574K72E7C6FAY	SPC58EC80E5FMC0X
SPC574K70E5C6FAR	SPC574K72E5C6FAR	SPC582B60E3MH00Y
SPC570S50E3CEFAR	SPC574K72E7C6FAR	SPC58EC80E5QMC0Y
SPC570S40E3CEFAY	SPC572L64E3BC6AR	SPC58EC80E7QMC0Y
SPC58NE84E7QM HAR	SPC574K72E5C6FAY	SPC58EC80E3QMC0Y
SPC570S40E3CEFAR	SPC58NE84E7QMHAY	SPC570S50E3CEFAY



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PRODUCT/PROCESS CHANGE INFORMATION

SUBJECT **M55 MICROCONTROLLERS: 2D MARKING INTRODUCTION
ON QFP (14X14 AND >14X14) PACKAGES (ST MALTA)**

IMPACTED PRODUCTS	<p>ST M55 Technology Microcontrollers assembled in the following packages:</p> <table> <tr> <th>PACKAGE DESCRIPTION</th><th>PRODUCT</th></tr> <tr> <td rowspan="3">LQFP 176L 24X24X1.4 Exposed Pad</td><td>SPC574K72E7BC6AR</td></tr> <tr> <td>SPC574K72E7C6FAR</td></tr> <tr> <td>SPC574K72E7C6FAY</td></tr> <tr> <td rowspan="11">TQFP 100 14x14x1.0 1.0 ExpadDown</td><td>SPC570S40E3CEFAR</td></tr> <tr> <td>SPC570S40E3CEFAY</td></tr> <tr> <td>SPC570S50E3CEFAR</td></tr> <tr> <td>SPC570S50E3CEFAY</td></tr> <tr> <td>SPC572L64E3BC6AR</td></tr> <tr> <td>SPC572L64E3BC6AY</td></tr> <tr> <td>SPC574S60E3CE0AR</td></tr> <tr> <td>SPC574S60E3CE0AY</td></tr> <tr> <td>SPC574S64E3CEFAR</td></tr> <tr> <td>SPC574S64E3CEFAY</td></tr> <tr> <td>SPC574S64E5CEFAY</td></tr> <tr> <td rowspan="5">TQFP 144 20x20x1.0 1.0 ExpadDown</td><td>SPC574K72E5BC6AR</td></tr> <tr> <td>SPC574K72E5C6FAR</td></tr> <tr> <td>SPC574K72E5C6FAY</td></tr> <tr> <td>SPC574S64E5CEFAR</td></tr> <tr> <td>SPC574S64E5CEFAY</td></tr> </table>	PACKAGE DESCRIPTION	PRODUCT	LQFP 176L 24X24X1.4 Exposed Pad	SPC574K72E7BC6AR	SPC574K72E7C6FAR	SPC574K72E7C6FAY	TQFP 100 14x14x1.0 1.0 ExpadDown	SPC570S40E3CEFAR	SPC570S40E3CEFAY	SPC570S50E3CEFAR	SPC570S50E3CEFAY	SPC572L64E3BC6AR	SPC572L64E3BC6AY	SPC574S60E3CE0AR	SPC574S60E3CE0AY	SPC574S64E3CEFAR	SPC574S64E3CEFAY	SPC574S64E5CEFAY	TQFP 144 20x20x1.0 1.0 ExpadDown	SPC574K72E5BC6AR	SPC574K72E5C6FAR	SPC574K72E5C6FAY	SPC574S64E5CEFAR	SPC574S64E5CEFAY
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MANUFACTURING STEP	<p>Assembly (marking)</p>																								
INVOLVED PLANT	<p>ST Malta Plant</p>																								

CHANGE REASON

Quality improvement, by introducing additional traceability information at marking level. Extended traceability will allow better backward analysis and more detailed feedbacks on process performance.

CHANGE DESCRIPTION

Additional 2D marking on component, allowing progressive enhancement of product traceability (diffusion lot, wafer number, dice coordinates, etc.). Current standard marking (layout and contents) remains unchanged; additional 2D mark has been introduced in the free available area of the different packages. Examples are shown below:

Package	Current Marking	New 2D Marking
TQFP 100 14x14x1.0 1.0 ExpadDown		
TQFP 144 20x20x1.0 1.0 ExpadDown		
LQFP 176L 24X24X1.4 Exposed Pad		

TRACEABILITY

Datocode and direct product marking.

VALIDATION

Change concerns product appearance only, with no impact on form, fit and function. No changes in process and / or equipment are required.

CURRENT PRODUCTS

New 2D marking will be progressively implemented on all concerned products and will definitively replace the current one.

REPORTS	Not applicable.
IMPLEMENTATION	Progressively, one month from this change information.