


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/21/12792	
1.3 Title of PCN	STM32F46X 1MB product improvement – on listed products	
1.4 Product Category	STM32F405x, STM32F407x, STMF415x, STM32F417x listed products	
1.5 Issue date	2021-07-16	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
2.1.1 Name	SAWTELLE KRISTIN
2.1.2 Phone	
2.1.3 Email	kristin.sawtelle@st.com
<b>2.2 Change responsibility</b>	
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**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
General Product & Design	Die redesign: Mask or mask set change with new die design - Design changes in active elements.	TSMC Fab14 (Taiwan)/ Crolles (France)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	<p>Current Die revision:</p> <ul style="list-style-type: none"> <li>- STM32F46X 1MB rev2 (Cut 1.3) in ST Crolles CRL300 (France)</li> <li>- STM32F46X 1MB rev4 (Cut 1.3) in TSMC Fab14 (Taiwan)</li> </ul> <p>Current RM0090 Rev 8 - Reference Manual STM32F405/415, STM32F407/417, STM32F427/437 and STM32F429/439 advanced Arm®-based 32-bit MCUs</p>	<p>New Die Revision to improve manufacturing efficiency:</p> <ul style="list-style-type: none"> <li>- STM32F46X 1MB rev6 (Cut 1.4) in ST Crolles CRL300 (France)</li> <li>- STM32F46X 1MB rev5 (Cut 1.4) in TSMC Fab14 (Taiwan)</li> </ul> <p>New RM0090 Rev 19 - Reference Manual - february 2021 STM32F405/415, STM32F407/417, STM32F427/437 and STM32F429/439 advanced Arm®-based 32-bit MCUs</p>
<b>4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?</b>	No impact on Form, Fit or Function	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	Product will be improved by adjusting some active cells. Dice revisions of the products will change. There is no change in the product logic and therefore no change to product functionality.
<b>5.2 Customer Benefit</b>	SERVICE IMPROVEMENT

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

<b>6.1 Description</b>	based on ST internal tools
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2021-05-14
<b>7.2 Intended start of delivery</b>	2021-12-22
<b>7.3 Qualification sample available?</b>	Upon Request

<b>8. Qualification / Validation</b>			
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<b>8.1 Description</b>	12792 Document binder MMS-MCD-RER1409 V3.1 - RER1715 V14.1 .pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2021-07-16

<b>9. Attachments (additional documentations)</b>			
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12792 Public product.pdf 12792 Document binder MMS-MCD-RER1409 V3.1 - RER1715 V14.1 .pdf 12792 PCN12792_Additional information.pdf
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<b>10. Affected parts</b>		
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<b>10. 1 Current</b>		<b>10.2 New (if applicable)</b>
<b>10.1.1 Customer Part No</b>	<b>10.1.2 Supplier Part No</b>	<b>10.1.2 Supplier Part No</b>
	STM32F405RGT6	
	STM32F407IGH6	
	STM32F407IGT6	
	STM32F407VGT6	

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