

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

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

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
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

	Old	New
4.1 Description	<p>Current Die revision: - STM32F46X 1MB rev2 (Cut 1.3) in ST Crolles CRL300 (France) - STM32F46X 1MB rev4 (Cut 1.3) in TSMC Fab14 (Taiwan)</p> <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: - STM32F46X 1MB rev6 (Cut 1.4) in ST Crolles CRL300 (France) - STM32F46X 1MB rev5 (Cut 1.4) in TSMC Fab14 (Taiwan)</p> <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>
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	No impact on Form, Fit or Function	

5. Reason / motivation for change

5.1 Motivation	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.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	based on ST internal tools
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7. Timing / schedule

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

8. Qualification / Validation

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

9. Attachments (additional documentations)

12792 Public product.pdf
 12792 Document binder MMS-MCD-RER1409 V3.1 - RER1715 V14.1 .pdf
 12792 PCN12792_Additional information.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
	STM32F405OEY6TR	
	STM32F405OGY6TR	
	STM32F405RGT6	
	STM32F405RGT6TR	
	STM32F405RGT6V	
	STM32F405RGT6W	
	STM32F405RGT7	
	STM32F405RGT7TR	
	STM32F405VGT6	
	STM32F405VGT6TR	
	STM32F405VGT6V	
	STM32F405VGT7	
	STM32F405VGT7TR	
	STM32F405ZGT6	
	STM32F405ZGT6W	
	STM32F405ZGT7	
	STM32F407IEH6	
	STM32F407IET6	
	STM32F407IGH6	
	STM32F407IGH6TR	
	STM32F407IGH7	
	STM32F407IGT6	
	STM32F407IGT7	
	STM32F407VET6	
	STM32F407VET6TR	
	STM32F407VGT6	
	STM32F407VGT6TR	
	STM32F407VGT7	
	STM32F407ZET6	
	STM32F407ZET7	
	STM32F407ZGT6	
	STM32F407ZGT6TR	
	STM32F407ZGT7	
	STM32F415OGY6TR	
	STM32F415RGT6	
	STM32F415RGT6TR	
	STM32F415VGT6	
	STM32F415ZGT6	
	STM32F417IEH6	

	STM32F417IET6	
	STM32F417IGH6	
	STM32F417IGT6	
	STM32F417IGT7	
	STM32F417VET6	
	STM32F417VGT6	
	STM32F417VGT6TR	
	STM32F417ZET6	
	STM32F417ZGT6	



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCN Title : STM32F46X 1MB product improvement – on listed products

PCN Reference : MDG/21/12792

Subject : Public Products List

Dear Customer,

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

STM32F407ZET7	STM32F407IEH7	STM32F405ZGT6W
STM32F405RGT6TR	STM32F405RGT6	STM32F407ZGT7
STM32F407VET6	STM32F417IEH6	STM32F405VGT6V
STM32F417IGH6TR	STM32F417VET6	STM32F407VGT7
STM32F415VGT6	STM32F407IGH6TR	STM32F417ZGT6
STM32F405RGT6V	STM32F407IGH6	STM32F405VGT6W
STM32F417VET6TR	STM32F407ZET6	STM32F405ZGT6
STM32F405VGT6	STM32F417VGT7	STM32F405ZGT6V
STM32F415RGT6	STM32F407VGT6TR	STM32F407IGT6
STM32F407ZGT6TR	STM32F417VGT6	STM32F407IGT7
STM32F405RGT7TR	STM32F407IET6	STM32F407ZGT6
STM32F405VGT7TR	STM32F405RGT6W	STM32F407VGT6
STM32F415ZGT6	STM32F415RGT6TR	STM32F417IGH6W
STM32F407IEH6TR	STM32F405VGT7	STM32F417IET6
STM32F415OGY6TR	STM32F407IGH7	STM32F417IGH6
STM32F405OEY6TR	STM32F417IGT7	STM32F405OGY6TR
STM32F417ZET6	STM32F405VGT6TR	STM32F405ZGT7
STM32F405RGT7	STM32F407IEH6	STM32F417VGT6TR
STM32F407VGT7TR	STM32F407VET6TR	STM32F415VGT7TR
STM32F417IGT6	STM32F415VGT6TR	



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