


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	MDG/21/12467	
<b>1.3 Title of PCN</b>	STM32L4Rxxx and STM32L4Sxxx products enhancement	
<b>1.4 Product Category</b>	STM32L4Rxxx and STM32L4Sxxx products	
<b>1.5 Issue date</b>	2021-01-29	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	NEMETH KRISZTINA
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<b>2.2 Change responsibility</b>	
<b>2.2.1 Product Manager</b>	Ricardo Antonio DE SA EARP
<b>2.1.2 Marketing Manager</b>	Veronique BARLATIER
<b>2.1.3 Quality Manager</b>	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 like metallization (specifically chip frontside) or bug fix	TSMC Fab14 (Taiwan)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	STM32L4Rxxx and STM32L4Sxxx Devices limitation in Cut 1.4 (Version W) as documented in ES0393 - Rev 7 - September 2020. - Data corruption upon a specific FIFO write sequence to synchronous PSRAM - Workaround: Use the FMC peripheral in Asynchronous write mode or disable the write FIFO buffer.	STM32L4Rxxx and STM32L4Sxxx Devices limitation has been fixed in Cut 1.5 (Version V) as documented in ES0393 - Rev 8 - December 2020.
<b>4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?</b>	Impact on Function: improvements indicated in ES0393 - Rev 8 - December 2020 errata sheet.	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	FSMC improvement
<b>5.2 Customer Benefit</b>	QUALITY IMPROVEMENT

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

<b>6.1 Description</b>	Traceability ensure by ST internal tools. The die revision changes from "W" to "V". It is marked on packages of the part.
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2021-01-20
<b>7.2 Intended start of delivery</b>	2021-02-24
<b>7.3 Qualification sample available?</b>	Upon Request

**8. Qualification / Validation**

<b>8.1 Description</b>	12467 MMS-MCD RERMCD1603 - STM32L4RX-SX - Die 470XXXV - PCN12467 - Reliability Evaluation Report.pdf
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8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2021-01-29
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9. Attachments (additional documentations)
12467 Public product.pdf 12467 MMS-MCD RERMCD1603 - STM32L4RX-SX - Die 470XXXV - PCN12467 - Reliability Evaluation Report.pdf 12467 PCN12467_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
2851033	STM32L4R5AGI6	
2851034	STM32L4R5AII6	
2851035	STM32L4R5QGI6	
2851037	STM32L4R5VGT6	
2851038	STM32L4R5VIT6	
2851039	STM32L4R5ZGT6	
2820771	STM32L4R5ZIT6	
2851040	STM32L4R5ZIT6P	
2851041	STM32L4R7AII6	
2851042	STM32L4R7VIT6	
2851043	STM32L4R7ZIT6	
2851044	STM32L4R9AGI6	
2820772	STM32L4R9AII6	
2851045	STM32L4R9VGT6	
2851046	STM32L4R9VIT6	
2851047	STM32L4R9ZGJ6	
2851048	STM32L4R9ZGT6	
2851049	STM32L4R9ZIJ6	
2820773	STM32L4R9ZIT6	
2851050	STM32L4R9ZIY6TR	
2851051	STM32L4S5AII6	
2851052	STM32L4S5QII6	
2851053	STM32L4S5VIT6	
2851054	STM32L4S5ZIT6	
2851055	STM32L4S7AII6	
2851056	STM32L4S7VIT6	
2851057	STM32L4S7ZIT6	
2851058	STM32L4S9AII6	
2851059	STM32L4S9VIT6	
2851060	STM32L4S9ZIJ6	
2851061	STM32L4S9ZIT6	
2851062	STM32L4S9ZIY6TR	

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