

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/20/11971	
1.3 Title of PCN	STM32L5 product improvement	
1.4 Product Category	STM32L5 products	
1.5 Issue date	2020-05-28	

2. PCN Team

2.1 Contact supplier	
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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 like metallization (specifically chip frontside) or bug fix	TSMC FAB14 (Taiwan)

4. Description of change

	Old	New
4.1 Description	<p>STM32L5 512K</p> <p>1. Rev B having following SMPS limitations</p> <ul style="list-style-type: none"> - Limitation with SMPS transition from HP mode to LP mode (Documented in Errata Sheet: LP mode not recommended) - Limitation with SMPS state which is unpredictable at power-on (Documented in Errata Sheet : The limitation occurrence probability is low, no workaround). Documented in ES0448 - Rev 4 - November 2019 <p>2. Bootloader version (V9.1) AN2606 - Rev 42 - December 2019</p>	<p>STM32L5 512K fixes</p> <p>1. Rev Z including fixes of SMPS limitations</p> <ul style="list-style-type: none"> - No more limitation "SMPS regulation loss upon transiting into SMPS LP mode". - No more limitation "Unpredictable SMPS state at power-on" <p>Documented in ES0448 - Rev 5 - April 2020</p> <p>2. Bootloader version update (V9.2): no functional impact for end user. Documented in AN2606 - Rev 43 - June 2020</p>
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Functionality Improvement	

5. Reason / motivation for change

5.1 Motivation	STM32L5 512K: Revision Z includes fix of SMPS limitation identified in Revision B
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Tracability ensured by ST internal tools
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7. Timing / schedule

7.1 Date of qualification results	2020-04-15
7.2 Intended start of delivery	2020-06-30
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	11971 MDG-MCD-RER1620 V1.2 - STM32L552x - STM32L562x - Die 472XXXZ - PCN11971 - Reliability Evaluation Report.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2020-05-28

9. Attachments (additional documentations)

11971 Public product.pdf
11971 MDG-MCD-RER1620 V1.2 - STM32L552x - STM32L562x - Die 472XXXZ - PCN11971 - Reliability Evaluation Report.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
	STM32L552QEI6	
	STM32L552VET6	
	STM32L552ZET6	



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 : STM32L5 product improvement

PCN Reference : MDG/20/11971

Subject : Public Products List

Dear Customer,

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

STM32L552CET6P	STM32L552VET6	STM32L562MEY6QTR
STM32L562ZET6Q	STM32L562CEU6	STM32L552ZCT6Q
STM32L562VET6Q	STM32L562QEI6Q	STM32L552RET6
STM32L552VET6Q	STM32L552CEU6	STM32L552CET6
STM32L552RET6Q	STM32L562RET6P	STM32L562CET6
STM32L562RET6	STM32L552ZET6	STM32L552MEY6QTR
STM32L562QEI6	STM32L552RET6P	STM32L552QEI6Q
STM32L552QEI6	STM32L552CEU6P	STM32L552MEY6PTR
STM32L562CEU6P	STM32L552ZET6Q	STM32L552QCI6Q
STM32L562CET6P	STM32L552CCT6	STM32L552CCU6
STM32L552RCT6	STM32L562VET6	STM32L562MEY6PTR
STM32L562QEI6TR	STM32L562ZET6	STM32L552VCT6Q



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