PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	*ST*	**STMicroelectronics International N.V**
1.2 PCN No.		**MDG/20/12437**
1.3 Title of PCN		**STM32G43x, STM32G44x, STM32G47x, STM32G48x & STM32G49x, STM32G4Ax product enhancement**
1.4 Product Category		**STM32G43x, STM32G44x, STM32G47x, STM32G48x and STM32G49x, STM32G4Ax products**
1.5 Issue date		**2020-11-24**

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

4. Description of change

	Old	New
4.1 Description	STM32G43x, STM32G44x current revision Y (cut 2.2) 1. Rev Y limitation ADC IP injected conversion issue Documented in ES0431 - Rev 5 2. Bootloader version V13.3: Documented in AN2606 - Rev 44 3. REV_ID: 0x2002 (DBGMCU_IDC register) Documented in RM0440 - Rev 4 STM32G47x, STM32G48x Current revision Y (cut 2.2) 1. Rev Y limitation - ADC IP injected conversion issue - VREFBUF issue when GPIO toggling issue Documented in ES0430- Rev 4 2. Bootloader version update V 13.4 Documented in AN2606 - Rev 44 3. REV_ID: 0x2002 (DBGMCU_IDC register) Documented in RM0440 - Rev 4 STM32G49x, STM32G4Ax Current revision A (cut 1.0) 1. Rev A limitation ADC IP injected conversion issue Documented in ES0523 - Rev 2 2. REV_ID: 0x1000 (DBGMCU_IDC register) Documented in RM0440- Rev 4	STM32G43x, STM32G44x New revision X (cut 2.3) 1. Rev X fixes ADC IP injected conversion issue Documented in ES0431 - Rev 6 - Nov 2020 2. Bootloader version V13.4 Documented in AN2606 - Rev 45 - Nov 2020 3. REV_ID: 0x2003 (DBGMCU_IDC register) Documented in RM0440 - Rev 5 - Nov 2020 STM32G47x, STM32G48x New revision X (cut 2.3) 1. Rev X fixes - ADC IP injected conversion issue - VREFBUF issue when GPIO toggling issue Documented in ES0430- Rev 6 - Nov 2020 2. Bootloader version update V 13.5 Documented in AN2606 - Rev 45 - Nov 2020 3. REV_ID: 0x2003 (DBGMCU_IDC register) Documented in RM0440 - Rev 5 - Nov 2020 STM32G49x, STM32G4Ax New revision Z (cut 1.1) 1. Rev Z fixes ADC IP injected conversion issue Documented in ES0523 - Rev 3 - Nov 2020 2. REV_ID: 0x1001 (DBGMCU_IDC register) Documented in RM0440- Rev 5 - Nov 2020
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Functionality Enhancement	

5. Reason / motivation for change

5.1 Motivation	1. ADC IP injected conversion issue fixed by metal for all products (STM32G43x, STM32G44x, STM32G47x, STM32G48x & STM32G49x, STM32G4Ax) 2. VREFBUF issue when GPIO toggling on STM32G47x, STM32G48x products 3. Bootloader change to add CCSRAM support on STM32G43x, STM32G44x, STM32G47x, STM32G48x products

5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Traceability of the change is ensured by ST internal tools.

7. Timing / schedule

7.1 Date of qualification results	2020-11-10
7.2 Intended start of delivery	2020-12-01
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	12437 Combined RER1904 468x RER1703 469x RER1920 479x.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2020-11-24

9. Attachments (additional documentations)

12437 Public product.pdf
12437 Combined RER1904 468x RER1703 469x RER1920 479x.pdf
12437 PCN12437_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**
	STM32G431C6T6	
	STM32G431C8T6	
	STM32G431CBT6	
	STM32G431CBU3	
	STM32G431CBU6	
	STM32G431KBT6	
	STM32G431KBU3	
	STM32G431KBU6	
	STM32G431RBT6	
	STM32G431VBT6	
	STM32G473CET6	
	STM32G473CEU6	
	STM32G473RBT6	
	STM32G473RET6	
	STM32G473VBT6	
	STM32G473VET6	
	STM32G474CET6	
	STM32G474CEU6	
	STM32G474QET3	
	STM32G474QET6	
	STM32G474RBT3	
	STM32G474RBT6	
	STM32G474RCT6	
	STM32G474RET6	
	STM32G474VEH6	
	STM32G474VET6	
	STM32G484RET6	

IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

Public Products List

Publict 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 : STM32G43x, STM32G44x, STM32G47x, STM32G48x & STM32G49x, STM32G4Ax product enhancement

PCN Reference : MDG/20/12437

Subject : Public Products List

Dear Customer,

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

STM32G431K6U3	STM32G431KBU3	STM32G431K8T6
STM32G474CCU3	STM32G474RCT6	STM32G441MBT6
STM32G431C8T6	STM32G473RBT6	STM32G483MET6
STM32G474RET6	STM32G431CBT3	STM32G483CET6
STM32G473RET6	STM32G431KBT6	STM32G483RET6
STM32G474CBU6	STM32G474QBT6	STM32G473CEU6
STM32G431RBI6	STM32G473VBT6	STM32G473QET6
STM32G474MBT6TR	STM32G474CEU6	STM32G483QET6
STM32G473RCT6	STM32G473CBU6	STM32G441CBT6
STM32G431CBU6	STM32G441VBT6	STM32G484RET6
STM32G431R6T6	STM32G441KBT6	STM32G431VBT6
STM32G473CET6	STM32G474CBT6TR	STM32G474CET3
STM32G431CBU3	STM32G474VCT6	STM32G431V8T6
STM32G431RBT3	STM32G431KBU6	STM32G473VCH6
STM32G441RBT6	STM32G484VEH6	STM32G431CBT6
STM32G431CBT3TR	STM32G431K6T6	STM32G431RBT6
STM32G474VET3	STM32G483CET3	STM32G431K6U6
STM32G473CCU6	STM32G431K8U6	STM32G474RBT3
STM32G484VET6	STM32G484QET6	STM32G474CBT3
STM32G474VBT3TR	STM32G473CBT6	STM32G431M6T6
STM32G431C8U3	STM32G431RBT6TR	STM32G441KBU6
STM32G473QCT6	STM32G474VET6TR	STM32G474RBT6
STM32G431CBY6TR	STM32G474VBT6	STM32G431C6T6
STM32G473CET3	STM32G484CEU6	STM32G474VET6
STM32G473CBT3	STM32G431R8I6	STM32G431R8T6
STM32G484CET6	STM32G474RET3	STM32G474QET6TR
STM32G431V6T6	STM32G431C8T6TR	STM32G473VET3
STM32G484MET6	STM32G474MBT6	STM32G474CCU6
STM32G473VET6	STM32G483CEU6	STM32G473VCT3TR
STM32G483VET6	STM32G474CET6	STM32G474VBT3
STM32G441CBU6	STM32G473MCT3TR	STM32G473MET3
STM32G431CBY3TR	STM32G474MEY6TR	STM32G431R6I6
STM32G474MET6	STM32G474MCT6	STM32G473VEH6TR
STM32G473CCT3	STM32G473MET6	STM32G473MCT3
STM32G474RCT3	STM32G473VCT6	STM32G474QET6
STM32G484MEY3TR	STM32G474VBH6	STM32G473VET6TR

STM32G473QBT6	STM32G473MCT6TR	STM32G441CBY6TR
STM32G431C8U6	STM32G431MBT6	STM32G431C6U6
STM32G473MBT6	STM32G483MEY6TR	STM32G473VCT3
STM32G474QCT6	STM32G473VBH3	STM32G474MBT3
STM32G431MBT3	STM32G473MCT6	STM32G484MEY6TR
STM32G473MEY3TR	STM32G441RBI6	STM32G474VET3TR
STM32G431M8T6	STM32G473MEY6TR	STM32G474MET3
STM32G474VEH6	STM32G473RET3	STM32G473VCT6TR

IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.