PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data	
1.1 Company	
1.2 PCN No.	MDG/24/14484
1.3 Title of PCN	STM32U535x & STM32U545x - product Enhancement
1.4 Product Category	STM32U535x, STM32U545x
1.5 Issue date	2024-04-11

2. PCN Team		
2.1 Contact supplier	2.1 Contact supplier	
2.1.1 Name	PIKE EMMA	
2.1.2 Phone	+44 1628896111	
2.1.3 Email	emma.pike@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
	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		New
4.1 Description	STM32U535x & STM32U545x (Die455 - cut1.1 revision Z) product shows some limitations	STM32U535x & STM32U545x (Die455 - cut1.2 revision Y) product fixes those limitations as described in the Errata Sheet (ES0587 Rev 4 / April 2024)
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Functionality enhancement	

5. Reason / motivation for change	
.1 Motivation Improvements implemented to increase robustness, performances and quality of our products.	
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change	
6.1 Description	traceability ensured by ST internal tools Die revision changes from "Z" to "Y" on Package Marking.

7. Timing / schedule	
7.1 Date of qualification results	2024-04-08
7.2 Intended start of delivery	2024-06-25
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
8.1 Description	14484 PCN14484_MDG-MCD-RER2103_STM32U5 512k - Die 455 - R	el Plan.pdf	
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2024-04-11

9. Attachments (additional documentations)

14484 Public product.pdf 14484 PCN14484_MDG-MCD-RER2103_STM32U5 512k - Die 455 - Rel Plan.pdf 14484 PCN14484_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
	STM32U535CEU6Q	
	STM32U535JEY6QTR	
	STM32U535NEY6QTR	
	STM32U535RET6	
	STM32U535RET6Q	
	STM32U535VEI6Q	
	STM32U535VET6	
	STM32U535VET6Q	
	STM32U545CET6	
	STM32U545CET6Q	
	STM32U545CEU6Q	
	STM32U545REI6	
	STM32U545REI6Q	
	STM32U545RET6	
	STM32U545VEI6Q	
	STM32U545VET6	
	STM32U545VET6Q	

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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 : STM32U535x & STM32U545x - product Enhancement PCN Reference : MDG/24/14484

Subject : Public Products List

Dear Customer,

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

STM32U545JEY6QTR	STM32U545NEY6QTR	STM32U535RET6QTR
STM32U535JEY6QTR	STM32U535NCY6QTR	STM32U535NEY6QTR
STM32U535RET6	STM32U535CCU6	STM32U535REI6
STM32U535CCU6TR	STM32U535REI6Q	STM32U535CEU6Q
STM32U535VCT6	STM32U535CBT6	STM32U535CEU6
STM32U545VEI6	STM32U535RCT6	STM32U545RET6Q
STM32U545RET3	STM32U535CBT6Q	STM32U535CET6
STM32U545CET6	STM32U545VET6Q	STM32U535RET6Q
STM32U535REI6TR	STM32U535RBT6	STM32U545CEU6TR
STM32U535VET6Q	STM32U545RET6	STM32U535VCI6Q
STM32U535VEI3	STM32U535VCI6	STM32U545CEU6Q
STM32U535RBT6Q	STM32U545REI6	STM32U535CCT6Q
STM32U545CEU6	STM32U535CBU6Q	STM32U545REI6Q
STM32U535VEI3TR	STM32U535CCT6	STM32U535RCT6Q
STM32U535CCU6Q	STM32U535VET6	STM32U535VEI6Q
STM32U545VEI6Q	STM32U545VET6	STM32U535VEI6
STM32U535RBI6Q	STM32U535RET6TR	STM32U535RCI6Q
STM32U545CET6Q	STM32U535CBU6	STM32U535CET6Q
STM32U535CEU6QTR		
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PRODUCT/PROCESS CHANGE NOTIFICATION PCN14484– Additional information

STM32U535xx & STM32U545xx - product enhancement

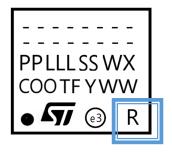
MDG – General Purpose Microcontrollers Division (GPM)

What are the changes?

Changes described in table below:

STM32U535xx	Current	New
& STM32U545xx	Die 455 CUT 1.1	Die 455- CUT 1.2
Die revision Marking R	"Z"	"Υ"

Example: Marking on package UFQFPN 7X7X0.55 48L





How to order samples?

- For all samples request linked to this PCN, please: place a <u>Non-standard</u> sample order (choose Sample Non Std Type from pull down menu) •
- insert the PCN number "PCN14484" into the NPO Electronic Sheet/Regional Sheet •
- request sample(s) through Notice tool, indicating a single Commercial Product for each request •

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PCN 14484 RER2103 Die 455XXXY Cut 1.2 TSMC40ULP 40nm Reliability Plan

February ^{15th}, 2024

MDG GPM Quality & Reliability Department

RER2103 – Die 455XXXY Cut 1.2 TSMC40ULP 40nm

Trial	Test	Method	Conditions	package	Bounding Option	Sample x lot
						455 Rev Y (Cut 1.2)
Die	HTOL	MIL-STD-883 Method 1005 JESD22A108	Tj 130°C 168h	LQFP100 14x14x1.4 P0.5mm	SMPS	77 x 1
	LU	0018695 JESD78	Tj 130℃	LQFP100 14x14x1.4 P0.5mm	Legacy	3 x 1
					SMPS	3 x 1
				WLCSP72 P0.35mm	SMPS	3 x 1
	ESD HBM	ANSI/ESDA/JEDEC JS-001	Ta 25℃ Min 1kV (Class 1C) Target 2kV (Class 2)	LQFP100 14x14x1.4 P0.5mm	Legacy	3 x 1
					SMPS	3 x 1
				WLCSP72 P0.35mm	SMPS	3 x 1
	ESD CDM	ANSI/ESDA/ JEDEC JS-002	Ta 25°C Min 250V (class C1) Target 500V (Class C2a)	LQFP100 14x14x1.4 P0.5mm	Legacy	3 x 1
					SMPS	3 x 1



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