

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/22/13627	
1.3 Title of PCN	STM32U575xx and STM32U585xx - product enhancement	
1.4 Product Category	STM32U575xx, STM32U585xx	
1.5 Issue date	2022-11-28	

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)

4. Description of change

	Old	New
4.1 Description	STM32U575xx/85xx - (Die482 - cut2.1 revision X) product shows following limitations described in Errata Sheet (ES0499 - Rev 4 - July 2022)	STM32U575xx/85xx - (Die482 - cut3.1 revision W) product enhancement fixes those limitations as described in Errata Sheet (ES0499 - Rev 5 - nov 2022)
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Functionality enhancement	

5. Reason / motivation for change

5.1 Motivation	Improvements was implemented to increase robustness, performances and quality of our products.
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	traceability ensured by ST internal tools Die revision changes from "X" to "W" on Package Marking.
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7. Timing / schedule

7.1 Date of qualification results	2022-12-08
7.2 Intended start of delivery	2022-12-15
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	13627 RERMCD1919 STM32U5 Die 482XXXW cut3.1 - qual plan.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2022-11-28

9. Attachments (additional documentations)		
13627 Public product.pdf 13627 RERMCD1919 STM32U5 Die 482XXXW cut3.1 - qual plan.pdf 13627 PCN13627_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
	STM32U575CIT6Q	
	STM32U575CIU6Q	
	STM32U575VGT6	
	STM32U575VIT6	
	STM32U575VIT6Q	
	STM32U575ZIT6	
	STM32U575ZIT6Q	
	STM32U585AII6	
	STM32U585AII6Q	
	STM32U585CIU6	
	STM32U585CIU6Q	
	STM32U585QII3	
	STM32U585RIT6	

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**PRODUCT/PROCESS
CHANGE NOTIFICATION
PCN13627– Additional information**

STM32U575xx and STM32U585xx - product enhancement

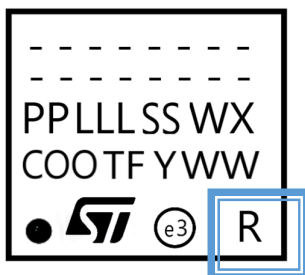
MDG – General Purpose Microcontrollers Division (GPM)

What are the changes?

Changes described in table below:

STM32U575xx STM32U585xx	Current Cut2.1	New Cut3.1
Die revision Marking R	"X"	"W"

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



How to order samples?

For all samples request linked to this PCN, please:

- place a **Non-standard** sample order (choose Sample Non Std Type from pull down menu)
- insert the PCN number "**PCN13627**" into the NPO Electronic Sheet/**Regional Sheet**
- request sample(s) through Notice tool, indicating a single Commercial Product for each request

Partial Ship: 01 Price Pol: 05 Status: 01 Canc:

%: 0 Sample Type: Sample Non Std Type

Closing Type: Sample Std Type
Sample Non Std Type
Sample Non Std w Spl Tests

Lab Sheet:

SO | NPO Sample

Header

SO Nr: 0018502433 Customer: 99770200 01 ST-TOKYO SO Type: 30 Sample Order Cost Center: JT3129 SAMPLES /SALES J

PO Nr: Carrier Code: 0001 Price Policy: 05 Currency: 02 U.S. DOLLAR Req Name:

Notes: Status: 01 All items pending,ni Issuing Date: 25-JUN-2018 Ord Val: 0.0000 Sample Req Date: 25-Jun-2018

Sch I Nr	PO I. Nr.	Finished Good	Comm Qty	Open Qty	Plant Open Qty	Reqd Qty	Unit Price	RD	CD	EDD	St
1.1.10	000001	STM32F429NIH6	30	30	30	30	0.0000	25-Jun-18	01-Mar-59	01-Mar-59	01

Final Cust: PO Item: 000001 Comm Prod: STM32F429NIH6 Qty: 30 RD: 25-Jun-18 Unit Price: 0.0000 Final Cust: 8800367006 SANSHIN/NPI

Cust Part Nr: Finishd Good: Partial Ship: 01 Price Pol: 05 Status: 01 Canc:

Notes: TAM K Pieces: 0 Our Share: 0 Sample Type: Sample Non Std Type

Project Name: Closing Date: Closing Type:

Regional Sheet: Lab Sheet:

PCN 10595

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Public Products List

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PCN Title : STM32U575xx and STM32U585xx - product enhancement

PCN Reference : MDG/22/13627

Subject : Public Products List

Dear Customer,

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

STM32U575VGT6	STM32U575OIY6QTR	STM32U585QII6
STM32U585CIU3Q	STM32U575AII6	STM32U585QII6Q
STM32U585RIT6	STM32U575VIT6	STM32U575ZIT6
STM32U575VIT6Q	STM32U585CIT6	STM32U575QGI6Q
STM32U575ZGT3	STM32U585VIT3Q	STM32U585QII3
STM32U585CIU6	STM32U585QII6QTR	STM32U575CIU6Q
STM32U585CIT3TR	STM32U575CIU6	STM32U575RIT6Q
STM32U575ZGT6	STM32U575AII6Q	STM32U575QII6Q
STM32U575CGU6	STM32U585QII6TR	STM32U585OIY6QTR
STM32U575AGI6TR	STM32U585CIT6Q	STM32U575RIT6
STM32U575QII6	STM32U575VGT3	STM32U575QGI6
STM32U575QGI3Q	STM32U585QII3TR	STM32U585ZIT6
STM32U575AGI6Q	STM32U585VIT6	STM32U585VIT6QTR
STM32U575OGY6QTR	STM32U575CGT6Q	STM32U575CGU6TR
STM32U585RIT6QTR	STM32U575RGT6TR	STM32U575CGU6Q
STM32U585AII6TR	STM32U575QGI3TR	STM32U575VGT3TR
STM32U575RGT6	STM32U585RIT6TR	STM32U585AII6Q
STM32U585CIU6Q	STM32U575QGI3	STM32U575VIT6TR
STM32U585VIT6TR	STM32U585ZIT6Q	STM32U575CIT6Q
STM32U585RIT6Q	STM32U575VGT6TR	STM32U575ZIT6Q
STM32U575ZGT6Q	STM32U575ZIT6TR	STM32U575RGT6Q
STM32U585AII6	STM32U575VGT6Q	STM32U575CIT6
STM32U585CIT3	STM32U575OGY3QTR	STM32U585VIT6Q
STM32U575AGI6	STM32U575CGT6	



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PCN13627 RERMCD1919 – Die 482XXXW Cut 3.1 TSMC CMOS40 – Reliability Plan

October 20th, 2022

MDG GPM Quality & Reliability Department

RERMCD1919 – Die 482XXXW Cut 3.1

TSMC CMOS40nm

Trial	Test1	Method	Conditions	package	Sample x lot
					482XXXW (Cut 3.1)
Die	HTOL	MIL-STD-883 Method 1005 JESD22A108	Tj 130°C VGO1Max: 1.26V VGO2Max: 3.63V 168h	UFBGA 7x7 169L pitch 0.5, gold, legacy.	77 x 1
	LU	0018695 JESD78	Tj 130°C	UFBGA 7x7 169L pitch 0.5, gold, legacy.	3 x 1
	ESD HBM	ANSI/ESDA/JEDEC JS-001	Ta 25°C Min 1KV (Class 1C) Target 2KV (Class 2)	UFBGA 7x7 169L pitch 0.5, gold, legacy.	3 x 1
	ESD CDM	ANSI/ESDA/ JEDEC JS-002	Ta 25°C Min 250V (class C1) Target 500V (Class C2a)	UFBGA 7x7 169L pitch 0.5, gold, legacy.	3 x 1

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