

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	EMBEDDED PROCESSING/26/16278
1.3 Title of PCN	STM32C53x and STM32C54x - Product Enhancement
1.4 Product Category	STM32C531x, STM32C532x and STM32C542x
1.5 Issue date	2026-07-15

2. PCN Team

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	Patrick AIDOUNE
2.1.2 Marketing Manager	Marie TOURNUT
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	ST Crolles 300 (France)

4. Description of change

	Old	New
4.1 Description	Current STM32C531x, STM32C532x and STM32C542x (Revision Z) products have limitations as described in Errata Sheet ES0676 - Rev 1- February 2026	STM32C531x, STM32C532x and STM32C542x (New Revision Y) products enhancements. fixes main issues as listed below System - Access permission faults are prioritized over unaligned device memory faults - Low-speed external clock in analog bypass mode might not work properly - LSE crystal oscillator may be disturbed by transitions on PC13 - LSE low drive mode is not functional ADC - In simultaneous regular mode, stopping an injected conversion may shift the next regular conversion master and slave timing by one clock cycle - Injected conversions do not work when SMPTRIG bit is set, regular conversions start then stop, and SMPTRIG bit is cleared COMP - Simultaneous operation of COMP1 and COMP2 is not supported RNG - RNG may report continuous seed errors in specific environmental conditions as described in Errata Sheet ES0676 - Rev 2 - June 2026
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Functionality enhancement	

5. Reason / motivation for change

5.1 Motivation	Improvements implemented to fix bugs.
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 "Z" to "Y" on Package Marking			
7. Timing / schedule					
7.1 Date of qualification results		2026-08-07			
7.2 Intended start of delivery		2026-09-30			
7.3 Qualification sample available?		Upon Request			
8. Qualification / Validation					
8.1 Description		16278 MDRF-GPAM RER2425 - PCN16278 STM32C5x - Die 44F_Y cut1.2 - Rel plan.pdf			
8.2 Qualification report and qualification results		Available (see attachment)	<table><tr><td>Issue Date</td><td>2026-07-15</td></tr></table>	Issue Date	2026-07-15
Issue Date	2026-07-15				
9. Attachments (additional documentations)					
16278 Public product.pdf 16278 MDRF-GPAM RER2425 - PCN16278 STM32C5x - Die 44F_Y cut1.2 - Rel plan.pdf 16278 _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			
	STM32C542CCT6				
	STM32C542CCU6				
	STM32C542KCT6				
	STM32C542KCU6				
	STM32C542RCT6				

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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 : STM32C53x and STM32C54x - Product Enhancement

PCN Reference : EMBEDDED PROCESSING/26/16278

Subject : Public Products List

Dear Customer,

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

STM32C542FCU6	STM32C531KCU3	STM32C542FCP6
STM32C532CCU6	STM32C531CCU6	STM32C532CBT3
STM32C532FCU6	STM32C532CCT3	STM32C532CBU6
STM32C532CCT6	STM32C542RCT6	STM32C531KCT6
STM32C532FCP6	STM32C542KCU6	STM32C532ECU6
STM32C531FCP6	STM32C531KBU3	STM32C542ECU6
STM32C532FBU6	STM32C531KCU6	STM32C531ECU6
STM32C532KCT6	STM32C531CBT3	STM32C542KCT6
STM32C531KBU6	STM32C531RCT3	STM32C531KCU3TR
STM32C532KCU6	STM32C532KBU6	STM32C532RBT6
STM32C531RBT6	STM32C542CCU6	STM32C531FCU6
STM32C531KBT3	STM32C531KBU6TR	STM32C531FBU6
STM32C542KCU3	STM32C531CBT3TR	STM32C531CCT6
STM32C531RCT6	STM32C532RCT6	STM32C542CCT6
STM32C532EBU6	STM32C532FBP6	STM32C531CCU3
STM32C532CBT6	STM32C532CCT3TR	STM32C531KBT3TR
STM32C531FBP6	STM32C542KCU3TR	STM32C531CBT6
STM32C532KBT6	STM32C531KBU3TR	STM32C531KCU6TR
STM32C531KBT6	STM32C531EBU6	STM32C531RCT3TR
STM32C531CBU6		

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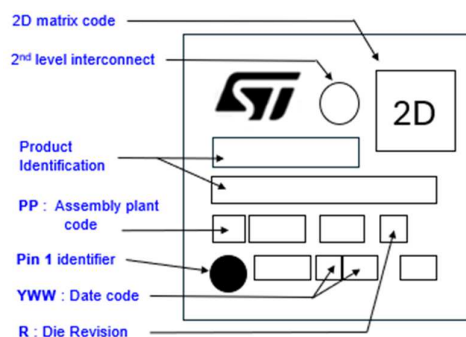
STM32C53x and STM32C542x - Product Enhancement

MDRF– General Purpose & Automotive Microcontrollers Division (GPAM)

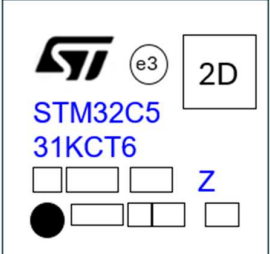
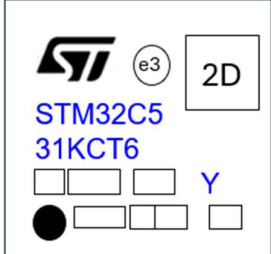
What are the changes?

The standard marking fields

for example, for **LQFP 32 7x7** package



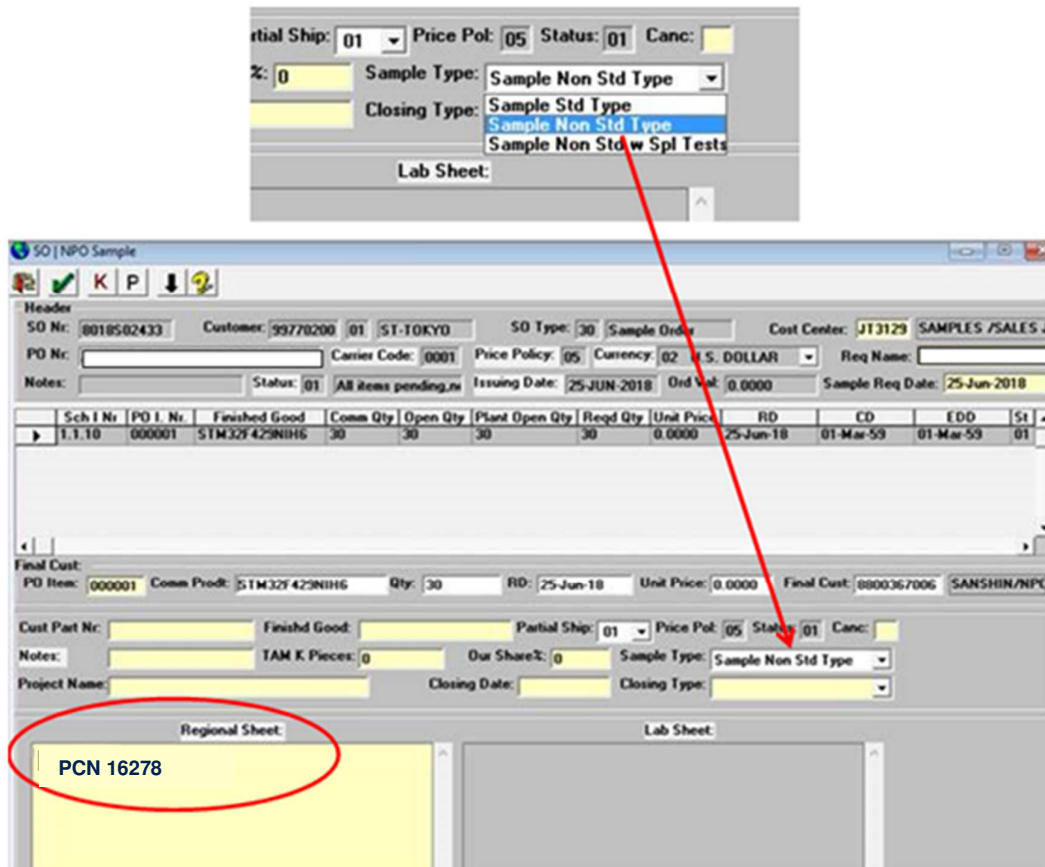
Changes is visible on marking composition as shown in the table below:

	Current condition	New condition
Front-End Diffusion site	ST Crolles 300 (France)	
Die revision Marking R	"Z"	"Y"
LQFP 32 7x7 (eg : STM32C531KCT6)		

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 "**PCN16278**" into the NPO Electronic Sheet/**Regional Sheet**
- request sample(s) through Notice tool, indicating a single Commercial Product for each request



The screenshot displays the NPO Sample system interface. At the top, a dropdown menu for 'Sample Type' is open, showing options: 'Sample Std Type', 'Sample Non Std Type' (highlighted), and 'Sample Non Std w Spl Tests'. A red arrow points from this menu to the 'Sample Type' field in the main form.

The main form contains the following fields:

- Header: SO No: 0018502433, Customer: 99770200, ST-TOKYO, SO Type: 30, Sample Order, Cost Center: JT3129, SAMPLES /SALES J
- PO No: , Carrier Code: 0001, Price Policy: 05, Currency: 02, U.S. DOLLAR, Req Name: ,
- Notes: , Status: 01, All Items pending, Issuing Date: 25-JUN-2018, Ord Val: 0.0000, Sample Req Date: 25-Jun-2018
- Table with columns: Sch I Nr, PO I. Nr, Finished Good, Comm Qty, Open Qty, Plant Open Qty, Req'd Qty, Unit Price, RD, CD, EDD, St
- Final Cust: PO Item: 000001, Comm Prod: STM32F429NIH6, Qty: 30, RD: 25-Jun-18, Unit Price: 0.0000, Final Cust: 0000367006, SANSHIN/NPC
- 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: PCN 16278 (circled in red)
- Lab Sheet:

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MDRF-GPAM RER2425 - PCN16278 STM32C5x - Product enhancement Die 44F RevY Cut1.2 Crolles eSTM40 ULP eFlash – Reliability Plan

May 12th, 2026

GPAM Quality & Reliability Department

MDRF-GPAM RER2425 Die 44F_Y Cut1.2 Crolles eSTM40 ULP eFlash

	Test1	Method	Conditions	Test2	Method	Conditions	package	Sample x lot
Trial	HTOL	MIL-STD-883 Method 1005 JESD22A108	168hrs @ Tj 140°C VGO1Max: 1.2V VGO2Max: 3.6V	-	-		LQFP64 10x10	77 x 1
	LATCH UP	0018695 JESD78	Tj = 140°C	-	-	-	LQFP64 10x10	3 x 1
	ESD HBM	ANSI/JEDEC JS-001	Ta 25°C Min 1kV (Class 1C) Target 2kV (Class 2)	-	-	-	LQFP64 10x10	3 x 1
	ESD CDM	ANSI/ESDA/ JEDEC JS-002	Ta 25°C Min 250V (class C1) Target 500V (Class C2a)	-	-	-	LQFP64 10x10	3 x 1

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