


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MICROCONTROLLERS/25/15304	
1.3 Title of PCN	ST ROUSSET (France) additional source for STM32F75x/74x listed products in M10/90nm technology.	
1.4 Product Category	STM32F745x, STM32F746x, STM32F755x, STM32F756x, STM32F750x.	
1.5 Issue date	2025-05-07	

2. PCN Team

2.1 Contact supplier

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication (SOP 2617)	ST Rousset (France)

4. Description of change

	Old	New
4.1 Description	Front-end sources for Die 449 cut1.1 : - ST Crolles (France) CR300 revision Z - TSMC (Taiwan) FAB14 revision 1	Front-end sources for Die 449 cut1.1 : - ST Crolles (France) CR300 revision Z - TSMC (Taiwan) FAB14 revision 1 Additional source - ST Rousset (France) RS8F revision 2
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No change on Form, Fit or Function - same datasheet.	

5. Reason / motivation for change

5.1 Motivation	Due to the success on the market of STM32 devices, ST Microcontrollers Division decided to qualify an additional front-end site to maintain state of the art service level to our customers thanks to extra capacity.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Change is visible through diffusion traceability plant, in the marking: - "9R" for TSMC Fab14 (Taiwan) - "VQ" for ST Crolles (France) - "VG" for ST Rousset (France) Please refer to PCN 15304- Additional information attached document.
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7. Timing / schedule

7.1 Date of qualification results	2025-06-26
7.2 Intended start of delivery	2025-08-12
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
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8.1 Description	15304 PCN15304_MDRF-GPAM-RER2417_M10 C300 to R8 - Die 449- Rel Plan.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2025-05-07

9. Attachments (additional documentations)			
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15304 Public product.pdf 15304 PCN15304_MDRF-GPAM-RER2417_M10 C300 to R8 - Die 449- Rel Plan.pdf 15304 _Additional information.pdf
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10. Affected parts		
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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
	STM32F745IET6	
	STM32F745IGK6	
	STM32F745IGT6	
	STM32F745VET6	
	STM32F745VGH6	
	STM32F745ZET6	
	STM32F746IEK6	
	STM32F746IET6	
	STM32F746IGK6	
	STM32F746IGK7	
	STM32F746IGT6	
	STM32F746NEH6	
	STM32F746NGH6	
	STM32F746VGT6	
	STM32F746ZET6	
	STM32F746ZGT6	
	STM32F746ZGT7	
	STM32F750Z8T6	
	STM32F756IGT6	
	STM32F756NGH6	
	STM32F756VGT6	
	STM32F756ZGT6	
	STM32F750N8H6	

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Public Products List

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PCN Title : ST ROUSSET (France) additional source for STM32F75x/74x listed products in M10/90nm technology.

PCN Reference : MICROCONTROLLERS/25/15304

Subject : Public Products List

Dear Customer,

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

STM32F746IGT7	STM32F746ZET6TR	STM32F745IET7
STM32F756VGH6	STM32F746VGT7	STM32F746IEK6
STM32F745IEK6TR	STM32F746ZGT7	STM32F746NGH7
STM32F746IGT6	STM32F746ZET6	STM32F745IGT6
STM32F745IET6	STM32F745ZGT6	STM32F745IGK6TR
STM32F745ZET6	STM32F746IGK6	STM32F746IET6
STM32F745VET6	STM32F756IGK6	STM32F746NGH6TR
STM32F746NEH6	STM32F746VET6TR	STM32F756IGT6
STM32F745IEK7	STM32F745VGT6	STM32F745VGT6TR
STM32F745IGK7	STM32F746NGH6	STM32F750Z8T6
STM32F745VET7	STM32F756NGH6	STM32F745ZGT7
STM32F756ZGT6	STM32F745IEK7TR	STM32F745IGK6
STM32F746VGH6	STM32F745VEH6	STM32F746IGK7
STM32F750N8H6	STM32F746VEH6	STM32F750V8T6
STM32F756VGT7	STM32F746VGT6	STM32F745VGH6
STM32F746ZGT6	STM32F745VEH6TR	STM32F746VET6
STM32F745IEK6	STM32F756VGT6	STM32F750V8T7

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**PRODUCT/PROCESS
CHANGE NOTIFICATION**

PCN15304 – Additional Information

**ST ROUSSET (France) additional source for STM32F75x/74x
products in M10/90nm technology.**

**MDRF – General Purpose and Automotive Microcontrollers Division
(GPAM)**

What are the changes?

- STM32F75x/74x products will be transferred to internal ST diffusion FAB Rousset RS8F (France).
- The design database remains the same. No change in the silicon Die 449 cut1.1 version.

How can the change be seen?

- **R - Die Revision changes** from (TSMC FAB14 or ST Crolles CR300) to (ST Rousset RS8F)
- **WX - Diffusion traceability plant code WX**
 - transferred from **9R** (TSMC FAB14) / **VQ** (ST Crolles 300)
 - to **VG** (ST Rousset) additional diffusion fab.

Table 1: New condition

	Current condition		New condition
Front-End Diffusion site	TSMC (Taiwan)	ST Crolles 300 (France)	ST Rousset (France)
	STM32F75x, STM32F74x Die 449 Cut 1.1		
Die revision Marking R	“1”	“Z”	“2”
Diffusion traceability plant code WX	“9R”	“VQ”	“VG”

Table 2: Expected date of first shipment

Commercial Product	Package	Expected first Shipment Date
STM32F74x/F75x	LQFP 14x14 100L	August 2025
	LQFP 20X20 144L	August 2025
	LQFP 24x24 176L	August 2025
	TFBGA 13X13 216L	August 2025
	TFBGA 8X8 100L	October 2025
	UFBGA 10X10 176+25L	August 2025



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How can the change be seen

Table 3: Marking Examples

Marking	Existing Sites (Example)	Added Front-End Site
LQFP 14x14 100L		
LQFP 20X20 144L		
LQFP 24x24 176L		
TFBGA 13X13 216L		
TFBGA 8X8 100L		
UFBGA 10X10 176+25L		
WX code	9R: TSMC FAB14 (Taiwan) VQ: ST Crolles 300 (France)	VG: ST Rousset (France)



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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 "**PCN15304**" 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 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: 0000067006 SANSHIN/NPC

Cust Part Nr: Finished 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:

PCN15304



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**PCN 15304
RER2417 - ST ROUSSET (France)
additional source for STM32F75x/74x
products in 90nm technology.**

Reliability Evaluation Plan

April 2025

GPAM Quality & Reliability Department

449 die reliability trials

Reliability Trial & Standard&		Test Conditions	Pass Criteria	Lot Strategy (diffusion)	Units per lot
ESD HBM	ANSI/ESDA JEDEC JS-001	1500 Ohms, 100pF 2kV (Class 2)	A0R1	1 lot	3
ESD CDM	ANSI/ESDA/ JEDEC JS-002	250V Class C1	A0R1	1 lot	3
LU	JESD78	125°C Class IIA	A0R1	1 lot	3
EDR	JESD22-A117	125°C 10k Cycling + 150°C Bake 1500h	A0R1	1 lot	77
EDR	JESD22-A117	25°C 10k Cycling + 150°C Bake 168h	A0R1	1 lot	77
EDR	JESD22-A117	-40°C 10k Cycling + 150°C Bake 168h	A0R1	1 lot	77
HTOL	JESD22-A108	125°C 3.6V / 1200h	A0R1	1 lot	77
ELFR	JESD22-A108 JESD74	Ta = 125°C / 48h	A0R1	1 lot	500

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