

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	EMBEDDED PROCESSING/26/16388
1.3 Title of PCN	ST Shenzhen (China) assembly site and HHgrace (China) Diffusion site additional source for STM32H74x and STM32H75x listed products in LQFP 14x14 packages.
1.4 Product Category	STM32H742x, STM32H743x, STM32H750x and STM32H753x
1.5 Issue date	2026-07-07

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
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Assembly site (SOP 2617)	ST Shenzhen (China), HHGrace (China)

4. Description of change

	Old	New
4.1 Description	Current assembly sites (depending on package size) with Crolles Diffusion source: - AMKOR ATP (Philippine) Gold wire, - AMKOR ATP (Philippine) Copper Palladium wire, - ASE Kaohsiung (Taiwan) Copper Palladium wire , - MUAR (Malaysia) Copper Alloy wire , You may refer to 16388_Additional information.pdf document for further details.	Current assembly sites (depending on package size) with Crolles Diffusion source: - AMKOR ATP (Philippine) Gold wire, - AMKOR ATP (Philippine) Copper Palladium wire, - ASE Kaohsiung (Taiwan) Copper Palladium wire , - MUAR (Malaysia) Copper Alloy wire , Additional assembly site with HHGrace new Diffusion Source for extended capacity: - ST Shenzhen (China) Copper Alloy wire.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact on Form, Fit or Function	

5. Reason / motivation for change

5.1 Motivation	Due to the success on the market of STM32 devices, ST General Purpose and Automotive Microcontrollers division decided to qualify an additional back-end site to maintain state of the art service level to our customers thanks to extra capacity.
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	Change is visible on the marking - Back-End Assembly Site code: • 7B : AMKOR ATP (Philippines) • AA : ASE KaoHsiung (Taiwan) • 99 : ST Muar (Malaysia) • GK : ST Shenzhen (China) New Assembly site - Diffusion plant code WX: • VQ : ST Crolles 300 (France) • Y5 : HHGrace WuXi (China) Fab 7 New Diffusion site • 2E : HHGrace WuXi (China) Fab 9 New Diffusion site Please refer to PCN 16388_Additional information.pdf document for further details.
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7. Timing / schedule	
7.1 Date of qualification results	2026-09-16
7.2 Intended start of delivery	2026-09-16
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
8.1 Description	16388 MDRF-GPAM-RER2613 PCN16388-STShz add srce STM32H74x-H75x LQ14 - Reliab plan.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2026-07-07

9. Attachments (additional documentations)
16388 Public product.pdf 16388 MDRF-GPAM-RER2613 PCN16388-STShz add srce STM32H74x-H75x LQ14 - Reliab plan.pdf 16388 _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
	STM32H742VIT6	
	STM32H750VBT6	

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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 : ST Shenzhen (China) assembly site and HHgrace (China) Diffusion site additional source for STM32H74x and STM32H75x listed products in LQFP 14x14 packages.

PCN Reference : EMBEDDED PROCESSING/26/16388

Subject : Public Products List

Dear Customer,

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

STM32H750VBT6TR	STM32H743VIT6TR	STM32H753VIT6
STM32H743VGT6	STM32H742VIT6TR	STM32H750VBT6
STM32H742VGT6TR	STM32H743VIT6	STM32H742VGT6
STM32H742VIT6		

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Diffusion site additional source for STM32H74x and STM32H75x
listed products in LQFP 14x14 packages.**

MRDF – General Purpose and Automotive Microcontrollers (GPAM)

What are the changes?

- STM32H75x/74x products have been transferred to ST Shenzhen (China) and to HHGrace WuXi (China) FAB. We are adding LQFP14x14 in ST Shenzhen only for HHGrace source. HHGrace source was already qualified through PCN15272.
- The design database remains unchanged. No change in the silicon version however in a second step a fix will be added to improve the yield at Electrical Wafer Sort.

How can the change be seen?

Table 1: Front-End Diffusion / Back-End Sites traceability

	Current condition	New condition	
Front-End Diffusion site	ST Crolles 300 (France)	HHGrace WuXi (China)	
		Fab 7	Fab 9
	STM32H75x, STM32H74x		
Die revision Marking R	“V”	“2”	“3”
Diffusion plant code WX	“VQ”	“Y5”	“2E”

Back-End Assembly sites	Existing Back-end	Added Back-End Site
Assembly plant code PP	AA: ASE KaoHsiung (Taiwan) 99: ST Muar (Malaysia) 7B: AMKOR ATP (Philippines)	GK: ST Shenzhen (China)

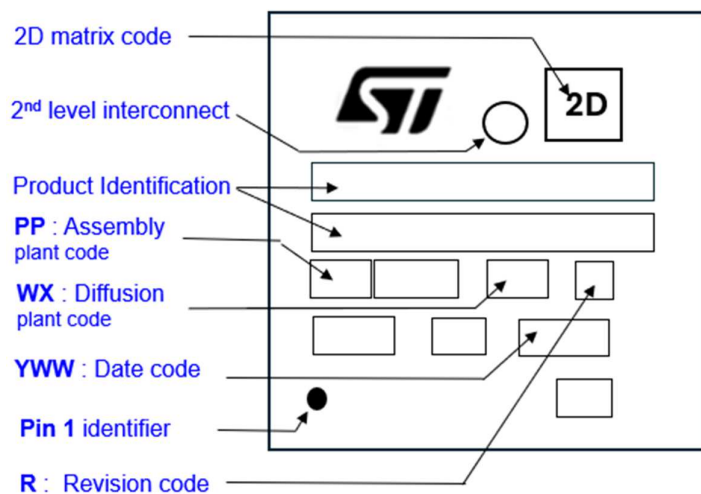
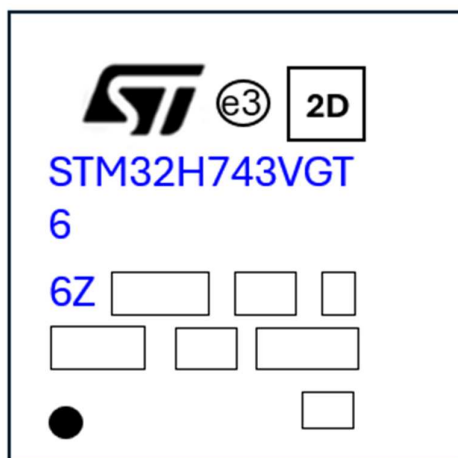


Table 2: Marking Example with STM32H743VGT6 Commercial product

STM32H743VGT6

LQFP 100L 14x14 package



Please refer to product [DataSheet](#) or Technical Note **TN1433** for package marking details.

Table 3 : Back-End assembly Sites for LQFP 100L 14x14 packages

LQFP 100L 14x14	Existing back-End assembly lines				Added Line
Assembly Plant	Amkor ATP (Philippines)		ASE Kaohsiung (Taiwan)	Muar (Malaysia)	ST Shenzhen (China)
Leadframe	Copper, post-plated				Post-Plated
Ledfinishing ⁽¹⁾	Pure Tin (e3)				Pure Tin (e3)
Molding Compound ⁽²⁾	EME-G631SHQ		EME-G631SH	EME-G700LS	EME-G700LS
Glue / Die Attach	AP4200	Ablestik 3230	EN4900G	Ablestik ABP8302	Ablestick 8303A
Wire bonding	Gold 0.8Mils	Copper Pd 0.8Mils	Copper Pd 0.8Mils	Copper Alloy 0.8Mils	Copper Alloy 0.8Mils
Marking	2D MARKING				

Lead color and surface finishing may slightly vary depending on lead finishing.

⁽¹⁾ Lead color and surface finishing may slightly vary depending on lead finishing.

⁽²⁾ Package darkness or chromaticity may change depending on molding compound.

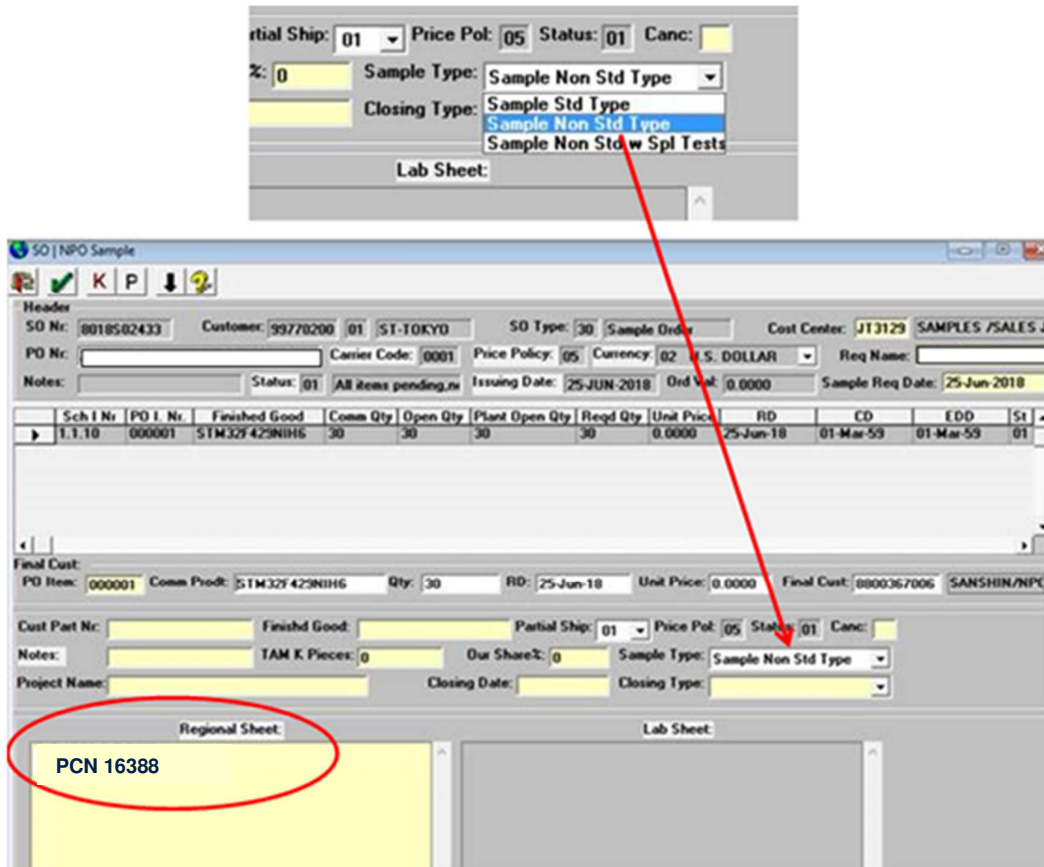
Pin1 identifier may change in terms of size and positioning however remaining near pin1's edge.

Marking position and size may be different upon assembly site, without any loss of information.

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 "**PCN16388**" 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' software 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 includes fields for 'SO No.', 'Customer', 'SO Type', 'Cost Center', 'PO No.', 'Carrier Code', 'Price Policy', 'Currency', 'Req Name', 'Status', 'Issuing Date', 'Ord Val', and 'Sample Req Date'. Below these is a table with columns: 'Sch I Nr', 'PO I. Nr', 'Finished Good', 'Comm Qty', 'Open Qty', 'Plant Open Qty', 'Reqd Qty', 'Unit Price', 'RD', 'CD', 'EOD', and 'St'. The table contains one row with data. Below the table, there are fields for 'Final Cust', 'PO Item', 'Comm Prod', 'Qty', 'RD', 'Unit Price', and 'Final Cust'. At the bottom, there are fields for 'Cust Part Nr', 'Finishd Good', 'Partial Ship', 'Price Pol', 'Status', 'Canc', 'Notes', 'TAM K Pieces', 'Our Share%', 'Sample Type', 'Closing Date', and 'Closing Type'. A red circle highlights the 'Regional Sheet' field, which contains the text 'PCN 16388'.

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MDRF-GPAM-RER2613 for PCN16388

ST Shenzhen (China) additional source for STM32H74x and STM32H75x listed products in LQFP 14x14 package

Reliability Evaluation Plan

July 03rd, 2026

MDRF GPAM Quality & Reliability

MDRF-GPAM-RER2613 for PCN16388

ST Shenzhen (China) additional source for STM32H74x and STM32H75x listed products in LQFP 14x14 package

Package Test Vehicles

Package line	Assembly Line	Package	Device (RawLine Code)	Diffusion Process Plant	Number of Reliability Lots
LQFP	LQFP 14x14	100L	STM32H74x/H75x (D01L*450QCX2)	M40 HHGRACE WUXI	3

Reliability strategy:

- Reliability will be performed on 3 lots from representative test vehicles of STM32H74x/H75x product lines.
- Refer to details in above and next tables.

ST Shenzhen (China) additional source for STM32H74x and STM32H75x listed products in LQFP 14x14 package

Package Reliability trials

Reliability Trial & Standard		Test Conditions	Pass Criteria	Unit per Lot	Lot qty
PC	Pre Conditioning: Moisture Sensitivity Jedec Level 3 J-STD-020/ JESD22-A113	Bake (125°C / 24 hrs) Soak (30°C / 60% RH / 192 hrs) Convection reflow: 3 passes	3 passes MSL3	231	3
uHAST(*)	UnBiased Highly Accelerated Temperature and Humidity Stress JESD22 A118	130°C, 85%RH, 2.3 atm	96h	77	3
TC(*)	Thermal Cycling JESD22 A104	-65°C +150°C	500Cy	77	3
THB(*)	Biased temperature & humidity stress JESD22 A101	85°C, 85% RH bias	500h	77	3
HTSL	High Temperature Storage Life JESD22 A103	150°C- no bias	500h	77	3
Construction analysis	ST internal specifications	Ball shear, pull test, IMC inspection , internal analysis	NA	50	1
ESD	ESD Charge Device Model JEDEC JS-002	Aligned with device datasheet	Aligned with device datasheet	3	1

(*) tests performed after preconditioning

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