

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	EMBEDDED PROCESSING/26/16389
1.3 Title of PCN	ST Shenzhen (china) additional source for STM32F2x and STM32F4x listed products in LQFP 14x14 packages
1.4 Product Category	STM32F205x, STM32F207x, STM32F215x, STM32F217x, STM32F405x, STM32F407x, STM32F415x, STM32F417x, STM32F427x, STM32F429x, STM32F437x and STM32F439x
1.5 Issue date	2026-06-30

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	
2.1.2 Phone	
2.1.3 Email	
2.2 Change responsibility	
2.2.1 Product Manager	
2.1.2 Marketing Manager	
2.1.3 Quality Manager	

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)

4. Description of change

	Old	New
4.1 Description	Current assembly sites : - AMKOR ATP (Philippine) Gold wire, - AMKOR ATP (Philippine) Copper Palladium wire, - ASE Kaohsiung (Taiwan) Gold wire , - ASE Kaohsiung (Taiwan) Copper Palladium wire , - MUAR (Malaysia) Silver wire. You may refer to 16389_Additional information.pdf document for further details.	Current assembly sites: - AMKOR ATP (Philippine) Gold wire, - AMKOR ATP (Philippine) Copper Palladium wire, - ASE Kaohsiung (Taiwan) Gold wire , - ASE Kaohsiung (Taiwan) Copper Palladium wire , - MUAR (Malaysia) Silver wire , - ST Shenzhen (China) Copper Alloy wire - additional site for extended capacity
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 Please refer to PCN 16389_Additional information.pdf document for further details.
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7. Timing / schedule

7.1 Date of qualification results	2026-09-25
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7.2 Intended start of delivery	2026-09-30
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
8.1 Description	16389 MDRF-GPAM-RER2613 STShz add srce STM32F2x-F4x LQ14-full china supply chain - Rel PLAN.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2026-06-30

9. Attachments (additional documentations)	
16389 Public product.pdf 16389 MDRF-GPAM-RER2613 STShz add srce STM32F2x-F4x LQ14-full china supply chain - Rel PLAN.pdf 16389 _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
	STM32F205VBT6	
	STM32F205VCT6	
	STM32F205VCT6TR	
	STM32F205VCT7	
	STM32F205VET6	
	STM32F205VET6TR	
	STM32F205VET7	
	STM32F205VFT6	
	STM32F205VGT6	
	STM32F205VGT7	
	STM32F207VCT6	
	STM32F207VET6	
	STM32F207VET6TR	
	STM32F207VGT6	
	STM32F207VGT6TR	
	STM32F207VGT7	
	STM32F215VET6	
STM32F217VGT6	STM32F217VGT6	
	STM32F217VGT6TR	
	STM32F405VGT6	
	STM32F405VGT6TR	
	STM32F405VGT7	
	STM32F405VGT7TR	
	STM32F407VET6	
	STM32F407VET6TR	
	STM32F407VGT6	
STM32F407VGT6TR	STM32F407VGT6TR	
	STM32F407VGT7	
	STM32F415VGT6	
	STM32F417VET6	
	STM32F417VGT6	
	STM32F417VGT7	
	STM32F427VGT6	
	STM32F427VGT6TR	
	STM32F427VGT7	
	STM32F427VIT6	

	STM32F427VIT6TR	
	STM32F427VIT7TR	
	STM32F429VET6	
	STM32F429VET6TR	
	STM32F429VGT6	
	STM32F429VGT6TR	
	STM32F429VIT6	
STM32F437VGT6	STM32F437VGT6	
9205541	STM32F437VGT6	
STM32F437VGT7	STM32F437VGT7	
	STM32F437VGT7TR	
	STM32F437VIT6TR	
	STM32F439VIT6	

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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) additional source for STM32F2x and STM32F4x listed products in LQFP 14x14 packages

PCN Reference : EMBEDDED PROCESSING/26/16389

Subject : Public Products List

Dear Customer,

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

STM32F437VIT6WTR	STM32F205VCT6	STM32F207VGT6TR
STM32F429VIT6TR	STM32F407VGT6	STM32F415VGT7
STM32F207VCT6TR	STM32F427VIT6	STM32F207VGT6
STM32F205VET6	STM32F205VGT7TR	STM32F427VGT6TR
STM32F417VET6TR	STM32F205VBT6	STM32F215VGT7
STM32F417VGT7	STM32F207VET6	STM32F427VGT6
STM32F405VGT6	STM32F205VGT6TR	STM32F439VIT6
STM32F437VGT7TR	STM32F207VFT6	STM32F205VCT7TR
STM32F429VET6TR	STM32F407VGT7TR	STM32F405VGT6W
STM32F407VET6	STM32F415VGT6	STM32F417VGT6
STM32F407VGT7	STM32F205VCT6TR	STM32F217VGT6TR
STM32F207VGT7	STM32F205VFT6	STM32F205VET7
STM32F207VFT6TR	STM32F215VET6	STM32F415VGT6TR
STM32F207VCT6	STM32F207VCT7	STM32F437VGT6
STM32F217VET6	STM32F437VIT6	STM32F427VIT7TR
STM32F205VGT6W	STM32F205VGT7	STM32F407VET6TR
STM32F405VGT6V	STM32F217VGT6	STM32F429VGT6
STM32F205VCT7	STM32F217VET6TR	STM32F215VGT6
STM32F405VGT7TR	STM32F427VIT6TR	STM32F407VGT6TR
STM32F437VGT6TR	STM32F429VIT6	STM32F405VGT7
STM32F429VET6	STM32F437VGT7	STM32F205VET7TR
STM32F437VIT7	STM32F405VGT6TR	STM32F207VET6TR
STM32F437VIT6TR	STM32F429VGT6TR	STM32F205VGT6V
STM32F415VGT7TR	STM32F205VGT6	STM32F205VET6TR
STM32F417VET6	STM32F205VFT6TR	STM32F205VBT6TR
STM32F437VIT7TR	STM32F417VGT6TR	STM32F439VGT6

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life.augmented

MDRF-GPAM-RER2613 for PCN16389

ST Shenzhen (China) additional source for STM32F2x and STM32F4x listed products in LQFP 14x14 package

Reliability Evaluation Plan

June 23rd, 2026

MDRF GPAM Quality & Reliability

ST Shenzhen (China) additional source for STM32F2x and STM32F4x 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 (1L*450)	M40 HHGRACE WUXI	3
			STM32F4x (1L*413)	M10 Rousset	1

Reliability strategy:

- Reliability will be performed on 3 lots from representative test vehicles of STM32H74x/H75x products for qualification of the assembly line
- Reliability will be performed on 1 lot from representative test vehicle of STM32F4x/F2x products to qualify M10 Rousset
- Refer to details in above and next tables.

ST Shenzhen (China) additional source for STM32F2x and STM32F4x 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	4
uHAST(*)	UnBiased Highly Accelerated Temperature and Humidity Stress JESD22 A118	130°C, 85%RH, 2.3 atm	96h	77	4
TC(*)	Thermal Cycling JESD22 A104	-65°C +150°C	500Cy	77	4
THB(*)	Biased temperature & humidity stress JESD22 A101	85°C, 85% RH bias	1000h	77	4
HTSL	High Temperature Storage Life JESD22 A103	150°C- no bias	1000h	77	4
Construction analysis	ST internal specifications	Ball shear, pull test, IMC inspection , internal analysis	NA	50	2
ESD	ESD Charge Device Model JEDEC JS-002	Aligned with device datasheet	Aligned with device datasheet	3	2

(*) tests performed after preconditioning

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PRODUCT/PROCESS CHANGE NOTIFICATION

PCN16389 – Additional information

ST Shenzhen (China) additional source for STM32F2x and STM32F4x listed products in LQFP 14x14 packages.

MRDF – General Purpose and Automotive Microcontrollers (GPAM)

What are the changes?

- Introduction of an additional assembly line to continue our path through the deployment of our Low-cost wire strategy to secure our supply chain.

Table 1 : Bill of material change description 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)
Molding Compound ⁽²⁾	EME-G631HQ		EME-G631SH		EME-G700LS	EMEG700LS
Glue / Die Attach	CRM 1076YB	Ablestik 3230	CRM 1076WA	EN4900G	Ablestik ABP8302	Ablestik 8303A
Wire bonding	Gold 0.8Mils	Copper Pd 0.8Mils	Gold 0.8Mils	Copper Pd 0.8Mils	Silver 0.8Mils	Copper Alloy 0.8Mils
Leadframe	Copper Pre-Plated	Copper Post Plated				Copper Post Plated
Lead finishing ⁽¹⁾	PPF (e4)	Pure Tin (e3)				Pure tin (e3)
Marking	2D marking		2D / no 2D marking	2D 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 can the change be seen?

Standard marking fields example for **LQFP 100 14x14** package

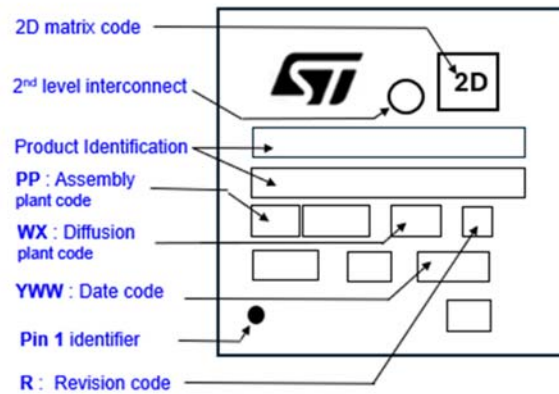
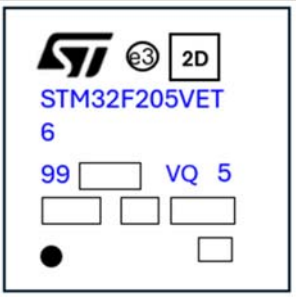


Table 2: Back-End Sites

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 3: Package top view marking example with STM32F205VET6 Commercial product

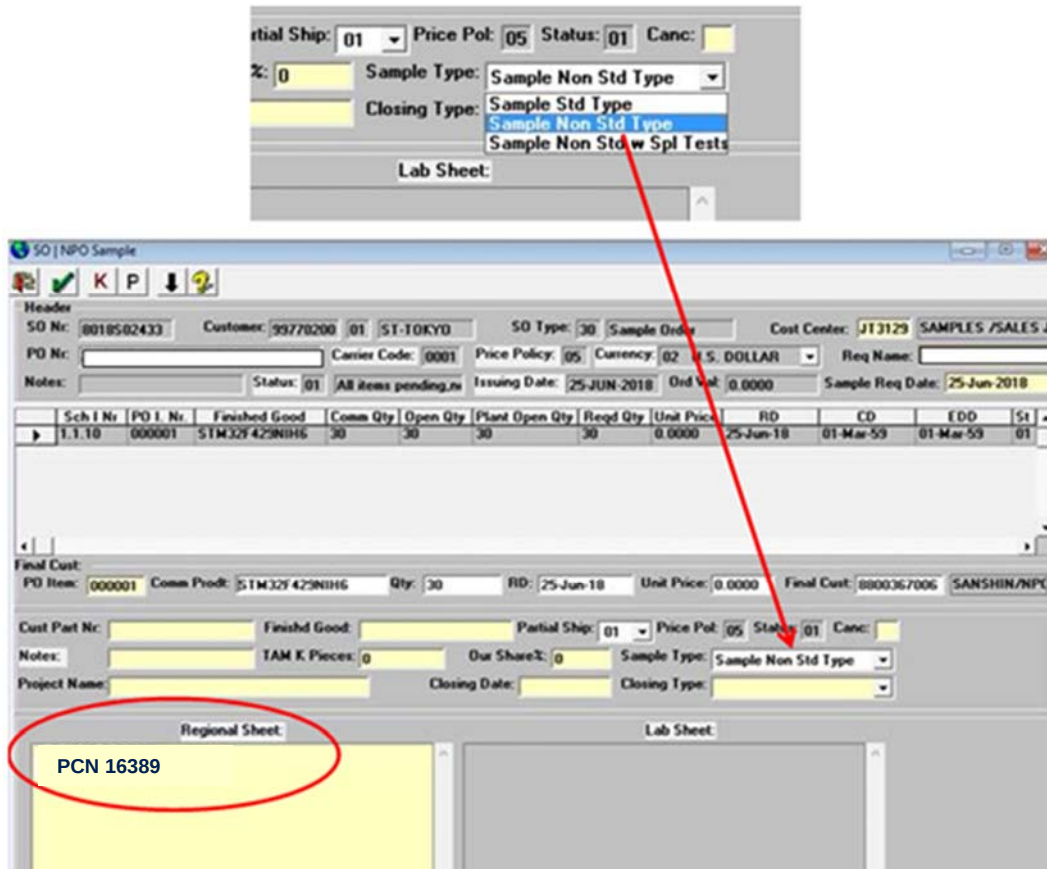
	ST Muar (Malaysia)
LQFP 100L 14x14 (ie: STM32F205VET6)	 The diagram shows the top view marking for the STM32F205VET6 package. It includes the ST logo, a small circle, a square box containing '2D', the part number 'STM32F205VET6' in blue, the number '6' in blue, the assembly plant code '99' in blue, a small box, the diffusion plant code 'VQ' in blue, the number '5' in blue, and a small circle.

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

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 "**PCN16389**" 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 'Sample Non Std Type' as the selected option. A red arrow points from this selection to the 'Regional Sheet' section at the bottom. In the 'Regional Sheet', the text 'PCN 16389' is entered and circled in red. The interface also shows various fields for 'Sample Type', 'Closing Type', and 'Lab Sheet'.

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	STM32F429NIIH6	30	30	30	30	0.0000	25-Jun-18	01-Mar-59	01-Mar-59	01



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