

PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MICROCONTROLLERS/24/14718	
1.3 Title of PCI	ASE Kaohsiung Enhanced traceability with 2D marking for LQFP7x7, LQFP10x10, LQFP14x14, LQFP20x20 & LQFP24x24 listed products	
1.4 Product Category	all listed products	
1.5 Issue date	2024-07-30	

2. PCI Team

2.1 Contact supplier	
2.1.1 Name	Robert Goodman
2.1.2 Phone	+1 6024856271
2.1.3 Email	robert.goodman@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
Methods	Traceability (marking content, company logo, etc)	ASE Kaohsiung (Taiwan)

4. Description of change

	Old	New
4.1 Description	Marking composition with no 2D marking	New marking composition with 2D marking for production assembly
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Form: Change is visible on marking area Fit : No change Function : No change Reliability : No change Processability : No change	

5. Reason / motivation for change

5.1 Motivation	to enhance traceability
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	2D marking visible on top device marking
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7. Timing / schedule

7.1 Date of qualification results	2024-04-18
7.2 Intended start of delivery	2025-09-02
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	14718 PCN14718 - validation.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2024-07-30

9. Attachments (additional documentations)

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
	STM32C031C4T6	
	STM32C031C6T7	
	STM32F030C6T6	
STM32F030C6T6TR	STM32F030C6T6TR	
	STM32F030C8T6	
	STM32F030C8T6TR	
	STM32F030CCT6	
	STM32F030CCT6TR	
	STM32F030K6T6	
STM32F030K6T6TR	STM32F030K6T6TR	
	STM32F030R8T6	
	STM32F030R8T6TR	
	STM32F030RCT6	
	STM32F030RCT6TR	
	STM32F031C4T6TR	
	STM32F031C6T6	
	STM32F031C6T6TR	
	STM32F051C4T6	
	STM32F051C6T6	
	STM32F051C8T6	
	STM32F051C8T6TR	
	STM32F051C8T7TR	
	STM32F051K4T6	
	STM32F051K8T6	
	STM32F051R4T6TR	
	STM32F051R8T6	
	STM32F051R8T6TR	
	STM32F051R8T7	
	STM32F051R8T7TR	
	STM32F070CBT6	
	STM32F070CBT6TR	
	STM32F071CBT6	
	STM32F071CBT6TR	
	STM32F071RBT6	
STM32F071RBT6TR	STM32F071RBT6TR	
	STM32F071VBT6	
	STM32F072C8T6	
	STM32F072C8T6TR	
	STM32F072CBT6	
	STM32F072CBT6TR	
	STM32F072CBT7	
	STM32F072R8T6	
	STM32F072R8T6TR	
	STM32F072VBT6	
	STM32F091CBT6	

	STM32F091CBT6TR	
	STM32F091CCT6	
	STM32F091CCT6TR	
	STM32F091CCT7	
	STM32F091RBT6	
	STM32F091RCT6	
	STM32F101C8T6	
	STM32F101C8T6TR	
	STM32F101CBT6	
	STM32F101CBT6TR	
	STM32F101RCT6	
	STM32F101RDT6	
	STM32F101RET6	
	STM32F101VCT6	
STM32F101VDT6	STM32F101VDT6	
	STM32F101ZET6	
	STM32F102C8T6	
	STM32F102CBT6	
	STM32F103C8T6	
	STM32F103C8T6TR	
	STM32F103C8T7	
	STM32F103CBT7	
	STM32F103RCT7	
	STM32F103RCT7TR	
	STM32F103RDT6	
	STM32F103RET6	
	STM32F103RET6TR	
	STM32F103RET7	
	STM32F103VCT6	
	STM32F103VCT6TR	
	STM32F103VDT6	
	STM32F103VDT6TR	
	STM32F103VDT7	
	STM32F103VET6	
STM32F103VET6TR	STM32F103VET6TR	
	STM32F103VET7	
	STM32F103ZCT6	
	STM32F103ZDT6	
	STM32F103ZET6	
STM32F103ZET6TR	STM32F103ZET6TR	
	STM32F103ZFT6	
	STM32F103ZGT6	
	STM32F103ZGT6TR	
	STM32F105VCT6	
	STM32F205RBT6	
	STM32F205RBT6TR	
	STM32F205RBT7	
	STM32F205RCT6	
	STM32F205RCT6TR	
	STM32F205RCT7	
	STM32F205RET6	

	STM32F205RET6TR	
	STM32F205RFT6	
	STM32F205RGT7	
	STM32F205VBT6	
	STM32F205VCT6	
	STM32F205VCT6TR	
	STM32F205VCT7	
	STM32F205VET6	
	STM32F205VET6TR	
	STM32F205VET7	
	STM32F205VFT6	
	STM32F205VGT6	
	STM32F205VGT7	
	STM32F205ZCT6	
	STM32F205ZCT6TR	
	STM32F205ZCT7TR	
	STM32F205ZET6	
	STM32F205ZET6TR	
	STM32F205ZET7	
	STM32F205ZET7TR	
	STM32F205ZFT6	
	STM32F205ZGT6	
	STM32F205ZGT6TR	
	STM32F207ICT6	
	STM32F207IET6	
	STM32F207IGT6	
	STM32F207IGT7	
	STM32F207VCT6	
	STM32F207VET6	
	STM32F207VET6TR	
	STM32F207VGT6	
	STM32F207VGT6TR	
	STM32F207VGT7	
	STM32F207ZCT6	
	STM32F207ZET6	
	STM32F207ZGT6	
	STM32F207ZGT6TR	
	STM32F207ZGT7	
	STM32F215RGT6	
	STM32F215VET6	
	STM32F215ZET6	
	STM32F215ZET6TR	
	STM32F215ZGT6	
	STM32F215ZGT7TR	
	STM32F217IGT6	
STM32F217VGT6	STM32F217VGT6	
	STM32F217VGT6TR	
	STM32F217ZGT6	
	STM32F302RBT6	
	STM32F302RCT6	
	STM32F302VCT6	

	STM32F302ZET6	
	STM32F303CBT7	
	STM32F303RBT7	
	STM32F303RBT7TR	
	STM32F303RCT6	
	STM32F303RCT6TR	
	STM32F303RCT7	
	STM32F303VCT6	
	STM32F303VCT7	
	STM32F303VCT7TR	
	STM32F401RET6	
	STM32F401RET6TR	
	STM32F405RGT6	
	STM32F405RGT6TR	
	STM32F405RGT7	
	STM32F405RGT7TR	
	STM32F405VGT6	
	STM32F405VGT6TR	
	STM32F405VGT7	
	STM32F405VGT7TR	
	STM32F405ZGT7	
	STM32F407IET6	
	STM32F407ZET6	
	STM32F407ZGT6	
	STM32F412VET3	
STM32F412VET6TR	STM32F412VET6TR	
	STM32F412VGT6	
	STM32F412VGT6TR	
STM32F412ZGT6	STM32F412ZGT6	
	STM32F412ZGT6TR	
	STM32F413VGT3TR	
	STM32F413VGT6	
	STM32F413VHT6	
	STM32F415RGT6	
	STM32F415VGT6	
	STM32F417IGT6	
	STM32F417IGT7	
	STM32F417VET6	
	STM32F417VGT6	
	STM32F417VGT7	
	STM32F417ZGT6	
	STM32F427IIT6	
	STM32F427IIT7	
	STM32F427VGT6	
	STM32F427VGT6TR	
	STM32F427VIT6	
	STM32F427VIT6TR	
	STM32F427VIT7TR	
	STM32F427ZGT6	
	STM32F427ZIT6	
	STM32F427ZIT6TR	

	STM32F427ZIT7	
	STM32F427ZIT7TR	
	STM32F429IET6	
	STM32F429IGT6	
	STM32F429IIT6	
	STM32F429VGT6	
	STM32F429VGT6TR	
	STM32F429ZET6	
	STM32F429ZET6TR	
	STM32F429ZGT6	
	STM32F429ZGT6TR	
	STM32F429ZIT6	
	STM32F437IGT6	
STM32F437VGT6	STM32F437VGT6	
9205541	STM32F437VGT6	
STM32F437VGT7	STM32F437VGT7	
	STM32F437VGT7TR	
	STM32F437VIT6TR	
	STM32F437ZGT6	
	STM32F437ZIT6	
	STM32F437ZIT7	
	STM32F439IGT6	
STM32F439IIT6	STM32F439IIT6	
	STM32F439IIT6U	
	STM32F439VIT6	
	STM32F439ZGT6	
	STM32F439ZIT6	
	STM32F446ZCT6	
	STM32F446ZET6	
	STM32F745IET6	
	STM32F745IET7	
	STM32F746IGT6	
	STM32F765IGT6	
	STM32F765ZGT6	
	STM32F765ZGT6TR	
	STM32F765ZGT7	
	STM32F767IGT6	
	STM32F767IIT6	
	STM32F767ZIT6	
	STM32F777IIT6	
	STM32F777ZIT6	
	STM32G030C8T6	
	STM32G030C8T6TR	
	STM32G030K6T6	
STM32G030K6T6TR	STM32G030K6T6TR	
	STM32G030K8T6	
	STM32G031C6T6	
	STM32G031C8T6	
	STM32G031K6T6	
	STM32G031K8T3	
	STM32G031K8T6	

	STM32G041C8T6	
	STM32G070CBT6	
	STM32G070CBT6TR	
	STM32G070RBT6	
	STM32G070RBT6TR	
	STM32G071RBT3	
	STM32G071RBT6	
	STM32G081RBT6	
	STM32G0B0VET6	
	STM32G0B1VBT6	
	STM32G0B1VCT6	
	STM32G0B1VET6	
	STM32G431RBT6	
	STM32G491VET6	
	STM32H563VIT6	
	STM32H563ZIT6	
	STM32H723VET6	
	STM32H723VET6TR	
	STM32H723VGT6	
	STM32H723ZGT6	
	STM32H725IGT6	
	STM32H725VGT3	
	STM32H725ZET6	
	STM32H725ZGT3	
	STM32H725ZGT6	
	STM32H725ZGT6TR	
	STM32H730IBT6Q	
	STM32H730VBT6	
	STM32H730VBT6TR	
	STM32H733ZGT6	
	STM32H735IGT6	
	STM32H735VGT6	
	STM32H735ZGT6	
	STM32H745IIT6	
STM32H753IIT6	STM32H753IIT6	
	STM32H755IIT6	
	STM32H7A3IIT6Q	
	STM32H7A3VGT6	
STM32H7B3IIT6	STM32H7B3IIT6	
	STM32H7R3I8T6	
	STM32H7R7I8T6	
	STM32H7S3I8T6	
	STM32H7S7I8T6	
	STM32L010R8T6	
	STM32L051C6T6	
	STM32L051C6T6TR	
	STM32L051C8T6	
	STM32L051C8T6TR	
	STM32L051R8T6TR	
	STM32L052C8T6	
	STM32L052R6T6	

	STM32L053C6T7	
	STM32L053R8T6	
	STM32L053R8T6TR	
	STM32L071VBT6	
	STM32L071VBT6TR	
	STM32L072RBT6	
	STM32L072RBT6TR	
	STM32L072RZT6	
	STM32L073RBT6	
	STM32L073RZT3	
	STM32L073RZT6	
	STM32L073VZT6	
	STM32L100R8T6	
	STM32L100RBT6	
	STM32L151C6T6	
	STM32L151C6T6TR	
STM32L151C8T6	STM32L151C8T6	
	STM32L151C8T6TR	
	STM32L151CBT6	
	STM32L151CBT6TR	
STM32L151R6T6	STM32L151R6T6	
	STM32L151R8T6	
	STM32L151RBT6	
	STM32L151VCT6A	
	STM32L151VDT6	
	STM32L152CBT6	
STM32L152VDT6TR	STM32L152VDT6TR	
	STM32L431RCT6	
	STM32L431RCT6TR	
	STM32L433RCT3	
	STM32L433RCT6	
	STM32L433VCT6	
	STM32L471RET6	
	STM32L471RGT6	
	STM32L471RGT6TR	
	STM32L471VET6TR	
	STM32L471VGT6	
	STM32L475RCT6	
	STM32L475RET6TR	
	STM32L475RGT6	
	STM32L475VCT6	
	STM32L475VET6	
	STM32L475VET6TR	
	STM32L475VGT6	
	STM32L476RCT6	
	STM32L476RET6	
	STM32L476RET6TR	
	STM32L476RGT3	
	STM32L476RGT6	
	STM32L476RGT6TR	
	STM32L476VCT6	

	STM32L476VCT6TR	
	STM32L476VET6	
	STM32L476VET6TR	
	STM32L476VGT3	
	STM32L476VGT6	
	STM32L476VGT6TR	
	STM32L486RGT6	
	STM32L486VGT6	
	STM32L496RGT3	
	STM32L496RGT3TR	
	STM32L496RGT6	
	STM32L496RGT6TR	
	STM32L496VET6	
	STM32L496VGT3	
	STM32L496VGT6	
STM32L4A6RGT6	STM32L4A6RGT6	
	STM32L4A6RGT6TR	
	STM32L4A6VGT6	
	STM32L4A6VGT6TR	
	STM32L4P5VGT6	
	STM32L4Q5VGT6	
	STM32L552VET6	
	STM32L552VET6TR	
	STM32L552ZET6	
	STM32L562VET6	
	STM32L562VET6Q	
	STM32L562VET6TR	
	STM32U535VET6	
	STM32U535VET6Q	
	STM32U545VET6	
	STM32U545VET6Q	
	STM32U575VGT6	
	STM32U575VGT6TR	
	STM32U575VIT6Q	
	STM32U585VIT6	
	STM32U585VIT6Q	
	STM32U585VIT6TR	
	STM32U585ZIT6Q	
	STM32U595VJT6	
	STM32U599VJT6	
	STM32U599VJT6Q	
	STM32U5A5RJT6	
	STM32U5A5RJT6Q	
	STM32U5A5VJT6	
	STM32U5A5VJT6Q	
	STM32U5A5ZJT6	
	STM32U5A5ZJT6Q	
	STM32U5A9ZJT6Q	
	STM8L052C6T6	
	STM8L052R8T6TR	
	STM8L151C6T6	

	STM8L151C8T6	
	STM8L151C8T6TR	
	STM8L151R6T6	
	STM8L151R8T6TR	
	STM8L152C6T6	
	STM8L152R8T6	

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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

PCI Title : ASE Kaohsiung Enhanced traceability with 2D marking for LQFP7x7, LQFP10x10, LQFP14x14, LQFP20x20 & LQFP24x24 listed products

PCI Reference : MICROCONTROLLERS/24/14718

Subject : Public Products List

Dear Customer,

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

STM32F427IIT7	STM32F205RET6TR	STM32F207VGT6
STM32G031C8T6	STM32F091CCT7TR	STM32G031C6T6
STM32F746IGT6	STM32F205RCT7	STM8L151R6T6TR
STM32F091CBT6	STM32F215RET6	STM32F401RDT7TR
STM32F765ZGT7	STM32F103ZCT6	STM32G431RBT6
STM32F429IET6	STM32G4A1VET6	STM32U585ZIT6Q
STM32F217IET6	STM32L471VGT6TR	STM32F423VHT6
STM32L063R8T6TR	STM32L475VGT6	STM32F427IIT6
STM32F205RET7TR	STM32F051R6T6	STM32F207VGT7
STM32F215VET6	STM32L053C6T7	STM32L053R6T6
STM32F723ICT6	STM32F103C8T6	STM32F207VCT6TR
STM32H725VGT6	STM32F439ZGT7	STM32F765ZGT6
STM32F401RDT6TR	STM32F205ZFT6	STM32F405VGT7TR
STM32L562ZET6TR	STM32H735ZGT6	STM32F072CBT6TR
STM32G031K8T3	STM32F205ZCT6	STM32F746IGT7
STM32H757IIT6	STM32H7B3IIT6Q	STM8L151C8T7
STM32G4A1MES6	STM32L4P5VGT6P	STM32F205ZCT7
STM32F071V8T6TR	STM32L053C6T6	STM32F103ZCT7
STM32F417VET6TR	STM32F217ZGT6	STM32F405VGT6TR
STM32F030K6T6	STM32G431RBT3	STM32U585VIT3Q
STM32L083RZT6	STM32F072C8T6TR	STM32F205ZET7TR
STM32F071VBT6TR	STM32F030C8T6	STM32F103C8T7
STM32F101ZDT6	STM32F427VIT6TR	STM32F429ZIT6
STM32F103RCT7	STM32F439ZGT7TR	STM32F031C4T6
STM32F071RBT6TR	STM32F051C6T7	STM32F051R4T6TR
STM32F051R8T6TR	STM32L433RCT6P	STM32U585ZIT3Q
STM32L051C8T6	STM32L051C6T6TR	STM32F091CCT6
STM32F091CCT6TR	STM32F429IGT6	STM32F765ZIT7
STM32F423VHT6TR	STM32L152C6T6	STM32L433RBT6
STM32U585ZIT6	STM32F437ZGT6	STM32F091RCT7
STM32F071CBT7	STM32H563ZIT6	STM32L052C8T6TR
STM32F205RCT6	STM32F051C4T6	STM32L152R8T6TR
STM32H573VIT6TR	STM32F103RDT6TR	STM32F101RDT6
STM32F437ZIT7TR	STM32F303RCT6	STM32L151R8T6
STM32F103ZGT6TR	STM32L475RGT6	STM32F103VDT6TR



Public Products List

STM32G070CBT6TR	STM32F207ICT6	STM32L052C8T6D
STM32F756IGT6	STM32F051C6T7TR	STM32L072RBT3
STM32F205ZGT6TR	STM32U585VIT6Q	STM32H7A3IGT6
STM32G070RBT6	STM32U575VGT3	STM32F101ZGT6
STM32F723IET6	STM32F429ZGT6	STM32L010RBT6
STM32F051C8T7TR	STM32F733IET6	STM32F429VGT6
STM32F777IIT6	STM32F722IET7	STM32H747IGT6
STM8L052C6T6	STM32F437IIT6	STM32L052C8T6
STM32F051C6T6TR	STM32L552VET6TR	STM32F439VGT6
STM32U575VIT6Q	STM32F302RCT6TR	STM32F103VCT6
STM32L4Q5ZGT6P	STM32U599ZIT6Q	STM32F051C8T7
STM32F051C4T6TR	STM32F205VCT6	STM32F103RET6
STM8L052R8T6TR	STM32L071RBT6TR	STM32F303RCT7
STM32F207ZCT7TR	STM32U575VGT6Q	STM32F070CBT6
STM32F205RET7	STM32F072C8T7	STM32F071CBT7TR
STM8L151C6T3	STM32F051C6T6	STM32F427ZGT6
STM32F215RGT6TR	STM32F051R4T6	STM32L552ZET6Q
STM32F303VCT7	STM32L072RBT6	STM32U575VGT6
STM32U575ZIT6	STM32F437VIT6WTR	STM32F072VBT6
STM8L151C6T3TR	STM32L431VCT6	STM32F103ZGT6
STM32H562IIT6	STM32F072CBT7	STM32F217ZET7
STM32F091RCT6TR	STM32F417VGT6	STM32F207IET6
STM32F207VET6	STM32F415VGT6TR	STM32F030C8T6TR
STM32F101CBT6TR	STM32F071V8T7TR	STM32F205RBT6TR
STM32F205VET6TR	STM32F072V8T6	STM32F102C8T6TR
STM32F217VGT6	STM32F417IET6	STM32L051R8T6TR
STM32F207VGT6TR	STM32L475RET6TR	STM32F302VBT6
STM32F446ZET6	STM32F429ZET6TR	STM32G031K8T7
STM32F030C6T6TR	STM32F429ZET6	STM32F215RET6TR
STM32F215ZET6TR	STM32F765ZGT6TR	STM8L152R8T6
STM32H753IIT6	STM32F051K6T6	STM32F417VET6
STM32L476VCT6TR	STM32F439VIT6	STM32F091CCT7
STM32L083RBT6	STM32G070CBT6	STM32L476VET6
STM32F427ZIT7TR	STM32F407ZET6	STM32F479IIT6
STM32U575ZGT6Q	STM32F439IGT6	STM32H725ZGT3
STM32F030R8T6	STM32L151CBT6	STM32L063R8T6
STM32G441RBT6	STM32L071RZT6	STM32F437VGT7
STM32L152VCT6A	STM32L071RZT6TR	STM32G491MES6
STM32F427ZGT6TR	STM32U575ZIT6Q	STM32L433RCT3TR
STM32F205VET6	STM32F207ZGT6TR	STM32F437VIT7
STM32L562ZET6Q	STM32F302VCT6TR	STM8L152R6T6TR
STM32F102CBT6TR	STM32F302RBT6	STM32L486RGT7
STM32F030R8T6TR	STM32H747IIT6	STM32F217VET6TR
STM32F767ZIT6	STM32F101RET6TR	STM32F051K4T6
STM32L476VCT6	STM32F437VGT6	STM32L073VZT6
STM32F205VGT7TR	STM32F217VGT6TR	STM32L152VDT6TR
STM32L063C8T6	STM32L083RZT6TR	STM32H725ZGT6
STM32F207ZET6	STM32F205VGT6TR	STM32F103VET7
STM32F302RBT7	STM32F215ZET6	STM32H730IBT6Q
STM32F427ZIT6TR	STM32F101VDT6	STM32G071KBT6N



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STM32F072C8T6	STM32F217VET6	STM32F071CBT6TR
STM32L4A6VGT6TR	STM32F303VCT6	STM32G041C6T6
STM32F103VDT7TR	STM32F091CBT7TR	STM32F405ZGT7
STM32F071RBT7TR	STM32F205ZET6TR	STM32F439IIT6
STM32G491VET6TR	STM32L072RZT6	STM32F429VGT6TR
STM32F407ZGT6	STM32H573ZIT3Q	STM32F215ZGT7TR
STM32G491VET6	STM32F207ZGT6	STM32F103RET7
STM32L051C8T6TR	STM32F437IIT7	STM32L443VCT6TR
STM32F072R8T6TR	STM32F051C8T6TR	STM32F071CBT6
STM32F098CCT6	STM32F091RCT6	STM32H743IGT6
STM32F412ZET6	STM32F072RBT7	STM32F072R8T6
STM32L053C8T7	STM32F407ZET6TR	STM32L052C8T7
STM32F031C6T6	STM32F205ZET6	STM32H725VGT3
STM32F031C4T6TR	STM32L475RGT6TR	STM32L562VET6TR
STM32L051C6T6	STM32L433VCT6TR	STM32F101VET6TR
STM32H7A3IIT6	STM32C031C4T6	STM32L073RZT3
STM32F207IFT6	STM32F303VCT7TR	STM32F217ZET6
STM32L053C8T6	STM32G071CBT7	STM32G0B0VET6
STM32L4P5ZGT6TR	STM32L552ZET3	STM32F072CBT6
STM32F051R8T7TR	STM32L053C8T6TR	STM32U595RJT6Q
STM32H725ZET6	STM8L151C6T6TR	STM32L552ZET6
STM32F405ZGT7TR	STM32F205ZCT6TR	STM32F746IET6
STM32L072RBT6TR	STM32H735VGT6	STM32F038C6T6
STM32F437VIT6TR	STM32L476RET6	STM32L053R8T7
STM32L152R6T6	STM32L151CBT6TR	STM32F051K6T7TR
STM32L073RZT6TR	STM32H723VET6	STM32G041C8T6
STM32F427VGT6	STM32L475VET6TR	STM32F207VFT6TR
STM32L431RCT6TR	STM32L431RCT6	STM32L052R8T7
STM32F071C8T6	STM32L433VCT3	STM32F417ZET6
STM32L476RCT6TR	STM32L053C8T3	STM32F405RGT7TR
STM32F205RBT6	STM32F031K6T7	STM32H745IGT6
STM32F217IGT6	STM32F215VGT6	STM8L152C4T6TR
STM32H7B0VBT6	STM32F417ZGT6	STM32L4P5ZGT6
STM32U535VET6	STM32F205VBT6	STM32F103RCT7TR
STM32H725VET6TR	STM32F205ZET7	STM32L152R8T6
STM32F205VFT6	STM32L476RGT6	STM32F407ZGT6TR
STM32F205VFT6TR	STM32L4A6RGT7TR	STM32F051K8T7
STM8L152C4T3	STM32F072RBT7TR	STM32F103ZET6
STM32L471VGT6	STM32F091RBT6	STM32G031C8T7
STM32L433VCT6	STM32F215VGT7	STM32F303RCT6TR
STM8L151C8T6TR	STM32F429ZIT6TR	STM32F302RCT7
STM32U575ZIT6TR	STM32F745IGT6	STM32F031C6T7TR
STM32F439ZGT6TR	STM32F051R8T7	STM32F401RET7
STM32F415RGT6	STM32F101VCT6	STM32L063R8T7
STM8L152C8T6	STM32L052R6T6	STM32U575VIT6
STM32L552ZCT6Q	STM32F412ZGT6TR	STM32F051C8T6
STM32F427IGT6	STM32G431R8T6	STM32F051K4T6TR
STM32F101RCT6TR	STM32L471VGT3	STM32F101RCT6
STM32G030C6T6TR	STM32F745IET6	STM32G0B1VCT6
STM32G030K6T6TR	STM32F205RBT7	STM32L475VET6



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STM32H7B0IBT6	STM32L562ZET6	STM32L010R8T6
STM32G031C4T6	STM32F415VGT6	STM32H563VGT6
STM32F767IGT6	STM32F415ZGT6	STM32F303CBT7
STM8L152C6T6	STM32L071RBT7	STM32F205VET7
STM32F412VGT6TR	STM8L052C6T6TR	STM32L475RET6
STM32F469IGT6	STM32F303VCT6TR	STM32L151R6T6
STM32C031C6T7	STM32L051R8T7	STM32L475RCT7TR
STM32F215ZGT6	STM32G071R8T6	STM32L4P5VGT6
STM32F765IIT6	STM32F732IET6	STM32F101ZET6
STM32L052C6T6	STM32U575VIT6TR	STM32L476RGT3
STM32F030CCT6TR	STM32F427VIT7TR	STM32F103ZDT6
STM32H745IIT3	STM32F417IGT7	STM32L562VET6Q
STM32F437VGT7TR	STM32F071C8T6TR	STM32F303RBT7TR
STM32L051C8T3	STM32F101C8T6	STM8L162R8T6
STM32L073RBT6	STM32F303VBT7	STM32L433RCT6
STM32F427VGT6TR	STM32F205VCT7TR	STM32F207VCT7
STM32F051R6T6TR	STM32L433RCT6TR	STM32F078CBT6
STM32H7R3I8T6	STM32F437VIT6	STM32F091CBT7
STM32F030CCT6	STM32L552VET6	STM32G041K8T6
STM32L433RCT3	STM32F103VDT7	STM32H745IIT6
STM32F407IET6	STM32L152C8T6	STM32F103ZFT6
STM32F205ZGT7TR	STM32F051K8T6	STM32F207ZGT7
STM8L052R8T6	STM32H742IIT6	STM32G070RBT6TR
STM32F205RFT6	STM32H562ZIT6	STM32F328C8T6
STM32U5A5VJT6Q	STM32L100R8T6TR	STM32F103C8T7TR
STM32F070RBT6	STM32L431VCT6TR	STM32F103ZCT7TR
STM32F102CBT6	STM32F030C6T6	STM8L151R8T3
STM32L053R8T3	STM32F412ZGT6	STM8L151C4T6
STM32U595VIT6QTR	STM32F207ZCT7	STM32G031K8T7TR
STM32L151RBT6TR	STM32F051R6T7	STM32G030C8T6
STM32L4Q5VGT6P	STM32L476VGT3	STM32L552VCT6Q
STM32F103RET6TR	STM32F302VCT7TR	STM32L073RBT6TR
STM32H563VIT6	STM32F405RGT7	STM32L100RBT6TR
STM32L471RGT6	STM32F207IGT7	STM32F439ZGT6
STM8L151C4T3	STM32F205RFT6TR	STM32L053R8T6
STM32H562IGT6	STM32U595VIT6Q	STM32F407ZET7
STM32F205ZCT7TR	STM32L476VGT6	STM32F051K6T7
STM32U585VIT6QTR	STM8L151R8T6	STM32U5A5RJT6
STM32L151C8T6	STM32F038C6T7	STM32H562VGT6
STM32L151VCT6A	STM32G030C6T6	STM32F303ZET7
STM32L010R8T6TR	STM32L073VBT6	STM8L152C4T6
STM32L152CBT6	STM32L053R8T6D	STM32F405VGT7
STM32H7A3VIT6	STM32L010RBT6TR	STM32F429IIT6
STM32G0C1VET6	STM32F417VGT7	STM8L152C4T3TR
STM32F722ICT6	STM32L475RGT7TR	STM32L475RGT7
STM32F103VET6	STM32F302VCT7	STM32F769IIT6
STM32G071RBT3	STM32L151VCT6ATR	STM32F105VCT6
STM32F437ZIT6	STM32F031K6T7TR	STM32L471RGT6TR
STM32F427ZIT7	STM32L053R8T6TR	STM8L151C6T6
STM32U5A5ZJT6Q	STM32L4A6RGT6P	STM32F415RGT6TR



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STM32G031K6T6	STM32H563VIT3Q	STM32L476VGT6TR
STM32L4A6RGT7	STM32H563VIT6TR	STM32L152VDT6
STM32F302RCT7TR	STM32L051R6T6	STM32F051K8T6TR
STM32G071RBT6	STM32H7B0VBT6TR	STM32F429ZGT6TR
STM32F446ZCT6	STM32F413VGT6	STM32F779IIT6
STM32U599VJT6Q	STM32L471VET6	STM32F205ZGT7
STM32G071KBT6	STM32F437IGT6	STM32F417IGT6
STM32L4P5ZET6	STM8L152C6T3	STM32L486VGT3TR
STM32L475RCT3	STM32F745IET7	STM32L496VGT6
STM32H725VGT6TR	STM32H725IGT6	STM32F205ZGT6
STM32F302ZDT6	STM32U575VGT3TR	STM32F765ZIT7TR
STM8L152R6T6	STM32F401RET6TR	STM32L162VDT6
STM32U585ZIT3QTR	STM32U5A5ZJT6	STM32F072VBT6TR
STM32F207VCT6	STM32G031K4T6	STM32L496RGT3
STM32F765IIT7	STM32F070CBT6TR	STM32F207IGT6
STM32F215ZGT7	STM32C031C6T7TR	STM32F427VIT6
STM32F102C8T6	STM32H723ZGT6	STM32F427ZIT6
STM32L486VGT6TR	STM32F103VDT6	STM32F103RDT6
STM32F101CBT6	STM32L496VGT3	STM32F412ZET7TR
STM32U599VJT6	STM32H7B3VIT6	STM32U585VIT6TR
STM32F769IGT6	STM32L4Q5VGT6	STM32F103VET6TR
STM32F101ZFT6	STM32F303VBT6TR	STM32L4A6RGT6
STM32F303RBT7	STM32L475RCT7	STM32F412VET6TR
STM32L151VDT6TR	STM32L443RCT6	STM32F207VFT6
STM32F205VGT7	STM32F412VGT6	STM32L476VGT7TR
STM32H7R7I8T6	STM32F417VGT6TR	STM32F767ZGT6
STM32H755IIT3	STM32U535VET6Q	STM32F412VGT7
STM32F207ZFT6	STM32L496RGT6	STM32F437VIT7TR
STM32F030RCT6TR	STM8L151R8T6TR	STM32H735IGT6
STM32F413VGT3	STM32F058R8T6	STM32L152RBT6
STM32H563IIT3Q	STM32F101VET6	STM32G081KBT6
STM32L471RET3	STM32F446VCT7	STM32G0B1VET6
STM32L471RET6	STM8L151C8T6	STM32L476RGT6TR
STM32H755IIT6	STM32F303ZET6	STM32L475VCT6
STM32G030K8T6	STM32F217IGT7	STM32G081RBT6TR
STM32F401RET6	STM32F412ZET7	STM32G071RBT7
STM32F205VCT6TR	STM32F103C8T6TR	STM32L443VCT6
STM32L496RGT6TR	STM32F071RBT6	STM32F401RDT6
STM32F205VGT6	STM32L151C6T6TR	STM32F446VCT6TR
STM32L486RGT7TR	STM32F091CBT6TR	STM32F302VCT6
STM32F412VET3	STM32F412VET3TR	STM32L4Q5ZGT6
STM32F101ZCT6	STM32F051R8T6	STM8L152C8T6TR
STM32U595ZJT6	STM32U5A5VJT6	STM32F405RGT6TR
STM32F030RCT6	STM32L053R6T6TR	STM32F103CBT7TR
STM32F446VET7	STM32F031C6T7	STM32L071RBT6
STM32F777ZIT6	STM32H7S7I8T6	STM32H562ZGT6
STM32F413VGT6TR	STM32G491MCS6	STM32L496RGT3TR
STM32L4A6VGT6	STM32L162VDT6TR	STM32U599ZJT6Q
STM32F446VCT6	STM32H723VGT6	STM32F103ZCT6TR
STM32G030K6T6	STM32F412VET6	STM32F405VGT6



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STM32H725ZGT6TR	STM32U595ZIT6Q	STM32F101C8T6TR
STM32F205RCT6TR	STM32F302RBT7TR	STM32F031C6T6TR
STM32L476VGT7	STM32H563IIT6	STM32F051R6T7TR
STM32L496VGT6TR	STM32U5A9ZJT6Q	STM32F101VCT6TR
STM32L496VET6TR	STM32L071VBT6TR	STM32G431RBT6TR
STM32G431R6T6	STM32U5A5RJT6Q	STM32H562VIT6
STM8L151C8T3	STM32L152R6T6TR	STM32L051R8T6
STM32U595RIT6	STM32U545VET6	STM32L052R8T6
STM32F070RBT6TR	STM32G491VCT6	STM32F205VET7TR
STM32F413VGT3TR	STM32F405RGT6	STM32F215RGT6
STM32F103ZET6TR	STM32H562VGT6TR	STM32G431RBT3TR
STM32L496VET3	STM32L073RZT6	STM32L471VET6TR
STM32C031C4T6TR	STM32L562VET3	STM32F302VBT6TR
STM32F030K6T6TR	STM32G071KBT6TR	STM32L496RGT6P
STM32F446ZET7	STM8L152C6T6TR	STM32F207VET6TR
STM32L486VGT3	STM32F031K6T6	STM32L496VET6
STM32L562VET6	STM32G081RBT6	STM32F205RGT7
STM32F103ZET7	STM32H730ZBT6	STM32U595VJT6
STM32H725IET6	STM32L471RET3TR	STM32F103VET7TR
STM32F437ZIT7	STM32U595RJT6	STM32F207ZET6TR
STM32F439ZIT6	STM32F071VBT6	STM32F722IET6
STM32H7A3IIT6Q	STM32L476RET6TR	STM32L443RCT6TR
STM32F071V8T6	STM32L476RCT6	STM32F765IGT6
STM32L4A6RGT6TR	STM32L072RZT6TR	STM32F103CBT7
STM32F303ZDT7	STM32F103VCT6TR	STM32F437VGT6TR
STM32F401RDT7	STM32G0C1VCT6	STM32U575VGT6TR
STM32H573IIT6	STM32H723VET6TR	STM32H730VBT6
STM32L496RET6	STM32L471RET6TR	STM32F207ZCT6
STM32L151VDT6	STM32F303ZDT6	STM32L071VBT6
STM32F051K6T6TR	STM32G081RBT3	STM32G031K8T6TR
STM32H725VET6	STM32L486RGT6	STM32H723ZET6
STM32U595VJT3Q	STM32L100R8T6	STM32U595VJT6Q
STM32H7B3IIT6	STM32F767IIT6	STM32F777IIT7
STM32G031K8T3TR	STM32U5A5ZJT6TR	STM32F302RCT6
STM32H7A3VGT6	STM32F302RBT6TR	STM32H733VGT6
STM32F205RET6	STM32F101RDT6TR	STM32L151C6T6
STM32F302ZET6	STM32H573ZIT6	STM32G071RBT7TR
STM32H7A3VGT6TR	STM32F413VHT6	STM32F358RCT6
STM32L496RET6TR	STM32F205VCT7	STM32L100RBT6
STM32L4P5VET6TR	STM32U5A9VJT6Q	STM32L552VET6Q
STM32F101RET6	STM32L476VET6TR	STM32H573VIT3Q
STM32L431RBT6	STM32G030K8T6TR	STM32L486RGT6TR
STM32F038C6T6TR	STM32F334C6T6	STM32G0B1VBT6
STM32U575ZGT6	STM32U575ZGT3	STM32H563VGT6TR
STM8L151C4T6TR	STM32H573IIT3Q	STM32L151C8T6TR
STM32G041K6T6	STM32U585VIT6	STM32L151R6T6TR
STM32F303RBT6TR	STM32G031K8T6	STM32L4P5ZGT6P
STM32L4P5VET6	STM32U595ZJT6Q	STM32H7S3I8T6
STM32F303VBT6	STM32F031K6T6TR	STM32F303RBT6
STM32L431RBT6TR	STM32H733ZGT6	STM32L151RBT6



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STM32L486VGT6	STM32U575VIT6QTR	STM32U545VET6Q
STM32L475RCT6	STM32F101VDT6TR	STM8L151R6T6
STM8L152R8T3	STM32F098RCT6	STM32H573VIT6
STM32U595ZIT6		

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life.augmented



**PCN 14718
ASE Kaohsiung Enhanced traceability with
2D marking for LQFP7x7, LQFP10x10,
LQFP14x14, LQFP20x20 & LQFP24x24
listed products**

Validation of the Traceability

July 2024

2D marking – 2DID Code quality check rule

For 2D quality check method is follow ISO TR29158.



2D code is auto detect by 2D reader.



Overall	
A	
ISO/IEC TR 29158	
?	
Decode	A
Cell Contrast	A
Cell Modulation	A
Reflectance Margin	A
Fixed Pattern Damage	A
Axial Nonuniformity	A
Grid Nonuniformity	A
Unused Err. Correction	A
Print Growth Horizontal	A
Print Growth Vertical	A

Based on 2D quality to determine the grade.
(Follow TR29158 defined item)

- ISO/IEC TR 29158:2011 Information technology - Automatic identification and data capture techniques - Direct Part Mark (DPM) Quality Guideline

2D marking – 2DID Code Vision Pass Rate


2D level	Mark content	2D decode
 <p>Overall A</p>	 <p>ST BB SPC58 LM331055 AA273 LM TWN 9V 408 029</p>	 <p>:AA40822204826345</p>

Sch	In Qty	Pass Qty	2DID fail Qty	2DID Pass Rate	2DID fail Rate
08TXP4	1764	1764	0	100%	0%

1. For mark 2DID quality is level A and no abnormal.
2. Confirm the pass rate is 100% to read 2DID.

Marking Inspection

- The yield for 2DID inspection is 100%.

ASET Schedule	2DID inspection result					Owner
441T9K311		Inqty	Pass	Reject	Invalid	Yield
		3409	3409			100%
						PE/AE

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PRODUCT/PROCESS CHANGE INFORMATION

PCI14718 – Additional information

ASE Kaohsiung Enhanced traceability with 2D marking for LQFP7x7, LQFP10x10, LQFP14x14, LQFP20x20 & LQFP24x24 listed products

MDRF – General Purpose Microcontrollers sub-group (GPM)

What is the change?

Purpose is to homogenize the marking composition to allow better identification of STM8/STM32 products whatever the production site (for package bigger or equal to 7x7mm body size).

For all listed products marking composition will include 2D information. This enhanced traceability will allow a unique traceability per device from manufacturing to the end customer.


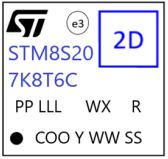








Codes already available on current marking:





PP : Assembly Plant code
LLL : BE sequence
WX : Wafer Diffusion Plant code
SS : ASsembly Sub-Lot
COO : Country Of Origin code
TF : Test & Finishing site code
Y WW : Year Week (manufacturing date)
R : **Additional Information** (Die Version)

Impacted Assembly site	COO Country Of Origin	PP Product Plant
ASE KaoHsiung (Taiwan)	TWN	GQ

How can the change be seen?

Table below shows marking examples for different package.

	Current marking composition example	New marking composition example
Impacted Package	Without	With 2D Marking
LQFP 32 7x7x1.4 MM (5V)		
LQFP 48 7x7x1.4 MM (5B)		
LQFP 64 10x10x1.4 MM (5W)		
LQFP 80 14x14x1.4 MM (1S)		
LQFP 100 14x14x1.4 MM (1L)		

	Current marking composition example	New marking composition example
Impacted Package	Without	With 2D Marking
LQFP144 20x20 1.4MM (1A)		
LQFP 176 24x24 1.4MM (1T)		

Some specific highlights:

- New marking will replace current marking.
- To save some space, “TF” code information has been removed from LQFP48 marking.
- Marking area is broken out into two separate lines to allow maximum information to be displayed.
 - o In the new marking condition, the marking area (lines in blue color in above table) will be filled up to the last possible character of the first line and will be resumed on the second line.
- As a consequence, the cardboard box labeling will also display this change, but we may have mismatch between Box Labelling and marking composition of parts inside this box during the transition time for about a few weeks. Refer to below examples of box labeling.

Package size with box labeling examples	Box labeling before:	Box labeling after:
LQFP 32 7x7x1.4 MM	STM8S207 K8T6C V	STM8S20 7K8T6C V
LQFP 48 7x7x1.4 MM	32F100 C8T6B Z	STM32F1 00C8T6B Z
LQFP 64 10x10x1.4 MM	STM32F101 RCT6 2	STM32F101R CT6 2
LQFP 80 14x14x1.4 MM	Z STM32G491 MCS6	STM32G491MCS 6 Z
LQFP 100 14x14x1.4 MM	STM32F071 VBT6 Y	STM32F071VBT 6 Y
LQFP 144 20x20 1.4 MM	32F429ZIT6 4	STM32F429ZIT6 4
LQFP 176 24x24 1.4 MM	STM32F745IGT6 1	STM32F745IGT6 1

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