

**PRODUCT / PROCESS CHANGE INFORMATION**

**1. PCI basic data**

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MICROCONTROLLERS/25/15246	
1.3 Title of PCI	Generic communication - Enhanced traceability with 2D marking for STM32 and STM8 listed products	
1.4 Product Category	all listed products	
1.5 Issue date	2025-06-09	

**2. PCI Team**

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

**3. Change**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
Methods	Traceability (marking content, company logo, etc)	all Sites

**4. Description of change**

	<b>Old</b>	<b>New</b>
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	2025-02-28
7.2 Intended start of delivery	2025-07-03
7.3 Qualification sample available?	Not Applicable

**8. Qualification / Validation**

8.1 Description	15246 PCN15246 - validation.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	<b>Issue Date</b>	2025-06-09

**9. Attachments (additional documentations)**

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life.augmented



**PCN 15246**  
**Generic communication - Enhanced**  
**traceability with 2D marking for STM32 /**  
**STM8 listed products**

**Validation of the Traceability**

March 2025

# 2D marking – 2DID Code quality check rule

For 2D quality check method is follow ISO TR29158.



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

Overall **A**

2D code is auto detect by 2D reader.

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

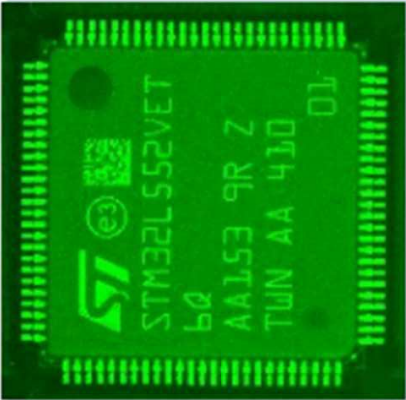
2D level	Mark content	2D decode
		

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	 <table border="1" data-bbox="791 349 887 1149"><thead><tr><th>Inqty</th><th>Pass</th><th>Reject</th><th>Invalid</th><th>Yield</th></tr></thead><tbody><tr><td>3409</td><td>3409</td><td></td><td></td><td>100%</td></tr></tbody></table>	Inqty	Pass	Reject	Invalid	Yield	3409	3409			100%	PE/AE
Inqty	Pass	Reject	Invalid	Yield								
3409	3409			100%								

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