

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	MDG/23/14500
1.3 Title of PCN	ST25DV04KC, ST25DV16KC and ST25DV64KC design improvement
1.4 Product Category	ST25DV04KC, ST25DV16KC, ST25DV64KC
1.5 Issue date	2023-12-21

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Marie-France FLORENTIN
2.2.2 Marketing Manager	Sylvain FIDELIS
2.2.3 Quality Manager	Mickael DENAIS-ALLICHON

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Die redesign : Mask or mask set change with new die design like metallization (specifically chip frontside) or bug fix	ST Rousset (France)

4. Description of change

	Old	New
4.1 Description	The ST25DV04KC, ST25DV16KC and ST25DV64KC (Open Drain and CMOS General Purpose Output) Dynamic NFC Tagshave undergone a design change at metal mask layer about the quality of the communication on a marginal portion of the production parts (sub-carrier frequency drift). For more information, please refer to Errata sheet ref ES0617.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	- Form: Marking change on package top side - Fit: No change - Function: No change	

5. Reason / motivation for change

5.1 Motivation	The strategy of STMicroelectronics Connected Security division is to support our customers on a long-term basis and to apply continuous improvement. In line with this commitment, those design enhancements will lead to: - Improve interoperability with some readers at low temperatures. - Increase system robustness.
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	According to marking top side
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7. Timing / schedule

7.1 Date of qualification results	2024-01-26
7.2 Intended start of delivery	2024-02-16
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	
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8.2 Qualification report and qualification results	In progress	Issue Date	
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9. Attachments (additional documentations)

14500 Public product.pdf
14500 PCN ST25DVKC-I2C series cut1.3.pdf

10. Affected parts

10.1 Current	10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No
	ST25DV04KC-IE6S3
	ST25DV04KC-IE6T3
	ST25DV04KC-IE8C3
	ST25DV04KC-IE8S3
	ST25DV04KC-IE8T3
	ST25DV04KC-JF6D3
	ST25DV04KC-JF6L3
	ST25DV04KC-JF8D3
	ST25DV16KC-IE6C3
	ST25DV16KC-IE6S3
	ST25DV16KC-IE6T3
	ST25DV16KC-IE8S3
	ST25DV16KC-IE8T3
	ST25DV16KC-JF6D3
	ST25DV16KC-JF8D3
	ST25DV64KC-IE6S3
	ST25DV64KC-IE6T3
	ST25DV64KC-IE8T3
	ST25DV64KC-JF6D3
	ST25DV64KC-JF8D3

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PRODUCT / PROCESS CHANGE NOTIFICATION

ST25DV04KC, ST25DV16KC and ST25DV64KC design improvement

What is the change?

The ST25DV04KC, ST25DV16KC and ST25DV64KC (Open Drain and CMOS General Purpose Output) Dynamic NFC Tags have undergone a design change at metal mask layer about the quality of the communication on a marginal portion of the production parts (sub-carrier frequency drift). For more information, please refer to Errata sheet ref ES0617.

Why?

The strategy of STMicroelectronics Connected Security division is to support our customers on a long-term basis and to apply continuous improvement.

In line with this commitment, those design enhancements will lead to:

- Improve interoperability with some readers at low temperatures.
- Increase system robustness.

When?

Qualification samples of ST25DV16KC-IE8T3 (first version release) are available since week 47 / 2023, others product versions availability dates are detailed in Table page 6.

How will the change be qualified?

The change has been qualified following the standard ST Microelectronics Corporate Procedures for Quality and Reliability.

The Qualification Report QRMMY2003 of ST25DV16KC-IE8T3 (first version release) will be available Week 03 / 2024. Updates of the report corresponding to other product versions will be available according to Table page 6.

What is the impact of the change?

- **Form:** Marking change on package top side
- **Fit:** No change
- **Function:** No change

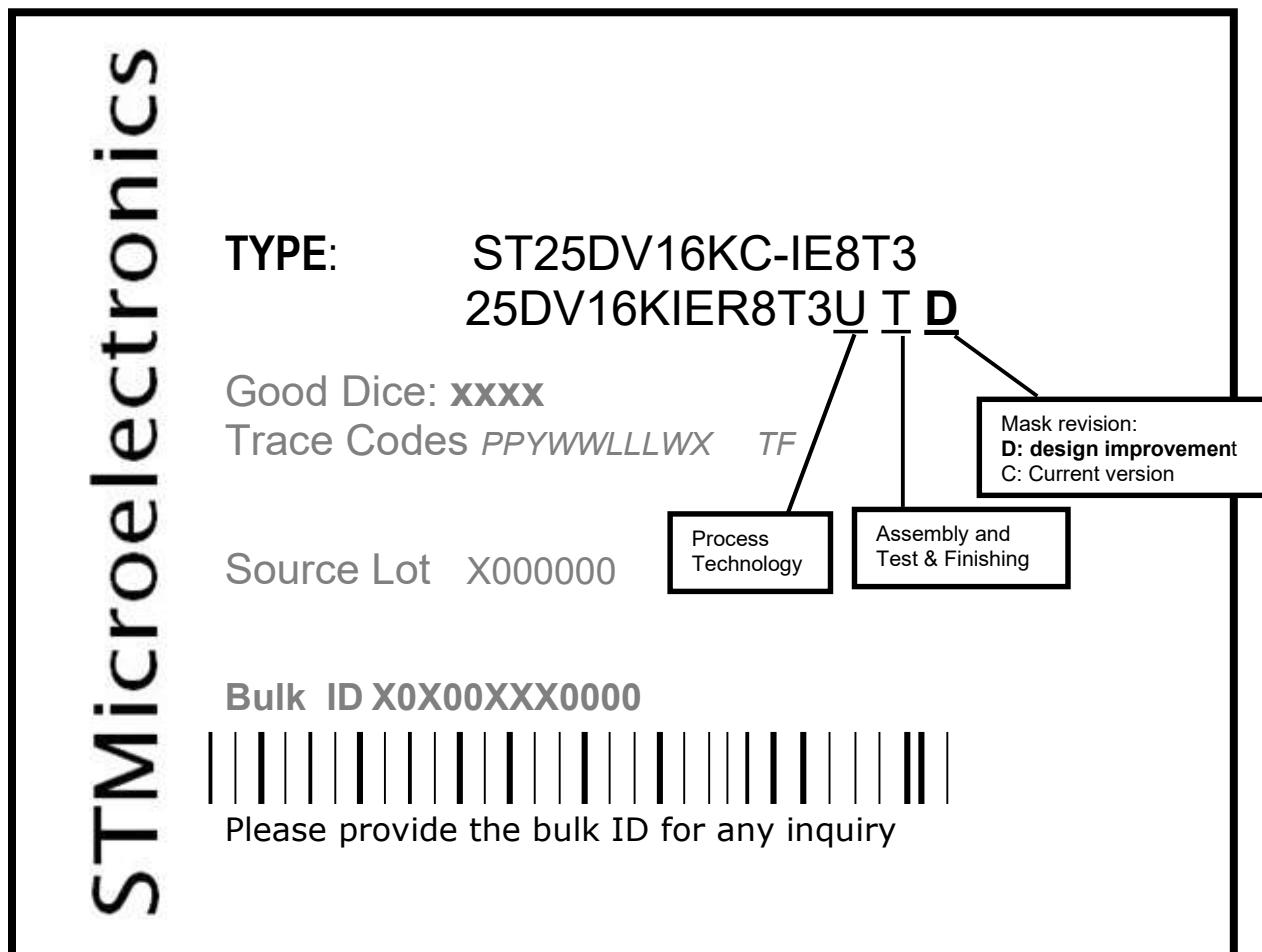
ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

How can the change be seen?

- BOX LABEL MARKING

On the BOX LABEL MARKING, the difference is visible inside the Finished Good Part Number:
The mask revision digit is "D" for the design improvement, this identifier being "C" for the current version:

➔ Example for ST25DV16KC-IE8T3



ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

How can the change be identified?

- Form: DEVICE MARKING

The change is visible inside the Product name where the last digit is "D" for the design change, this identifier being "C" for the current version.

SO8

Example for ST25DV16KC-IE6S3:

Legend:
DV4DERD = Product name
P = Assembly plant
Y = Assembly year
WW = Assembly week
U = Process techno (CMOS F8H)

New design



Current design



TSSOP8

Example for ST25DV16KC-IE6T3:

Legend:
V4EUD = Product name
P = Assembly plant
Y = Assembly year
WW = Assembly week

New design



Current design



DFN8

Example for ST25DV16KC-IE6C3:

Legend:
V4ECD = Product name
P = Assembly plant
Y = Assembly year
WW = Assembly week

New design



Current design

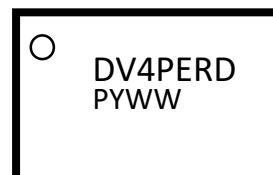


DFN12

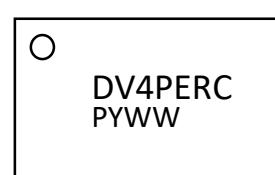
Example for ST25DV16KC-JF6D3:

Legend:
DV4PERD = Product name
P = Assembly plant
Y = Assembly year
WW = Assembly week

New design



Current design



ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

WLCSP10

Example for ST25DV04KC-JF6L3:

Legend:

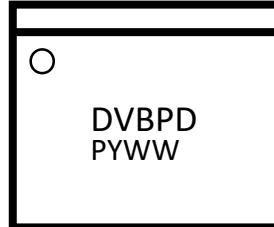
DVBPD = Product name

P = Assembly plant

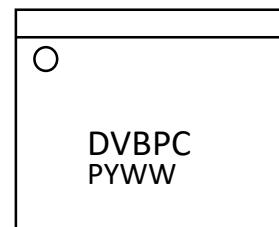
Y = Assembly year

WW = Assembly week

New design



Current design



ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

Product family / Commercial products:	ST25DV04KC, ST25DV16KC, ST25DV64KC
Customer(s):	All
Type of change:	Design change
Reason for the change:	Quality improvement
Description of the change:	Digital routing modification at metal mask layer
Forecast date of the change: (Notification to customer)	Week 51 / 2023
Forecast date of <u>Qualification samples</u> availability for customer(s):	Please refer to Table page 6.
Forecast date for the internal STMicroelectronics change, <u>Qualification report</u> availability:	Please refer to Table page 6.
Marking to identify the changed product:	Die version digit "D" in top marking product name
Estimated date of first production shipment: <u>Volume production</u> availability	Please refer to Table page 6.

ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

Appendix B: Concerned Commercial Part Numbers:

Current Commercial Part Numbers	Current Finished Good Part Numbers	New Finished Good Part Numbers	Qualification samples availability	Volume production availability	Qualification report availability
ST25DV04KC-IE6S3	25DV04KIER6S3UHC	25DV04KIER6S3UHD	W13-2024	W18-2024	W20-2024
ST25DV04KC-IE8S3	25DV04KIER8S3UHC	25DV04KIER8S3UHD	W09-2024	W17-2024	W20-2024
ST25DV04KC-IE6T3	25DV04KIER6T3UTC	25DV04KIER6T3UTD	W13-2024	W21-2024	W23-2024
ST25DV04KC-IE8T3	25DV04KIER8T3UTC	25DV04KIER8T3UTD	W09-2024	W17-2024	W20-2024
ST25DV04KC-IE6C3	25DV04KIER6C3UGC	25DV04KIER6C3UGD	W16-2024	W18-2024	W20-2024
ST25DV04KC-IE8C3	25DV04KIER8C3UGC	25DV04KIER8C3UGD	W12-2024	W21-2024	W23-2024
ST25DV04KC-JF6D3	25DV04KJFR6D3UGC	25DV04KJFR6D3UGD	W19-2024	W27-2024	W29-2024
ST25DV04KC-JF8D3	25DV04KJFR8D3UGC	25DV04KJFR8D3UGD	W21-2024	W27-2024	W29-2024
ST25DV04KC-JF6L3	25DV04KJFR6L3U7C	25DV04KJFR6L3U7D	W21-2024	W27-2024	W29-2024
ST25DV16KC-IE6S3	25DV16KIER6S3UHC	25DV16KIER6S3UHD	W12-2024	W18-2024	W20-2024
ST25DV16KC-IE8S3	25DV16KIER8S3UHC	25DV16KIER8S3UHD	W10-2024	W17-2024	W20-2024
ST25DV16KC-IE6T3	25DV16KIER6T3UTC	25DV16KIER6T3UTD	W12-2024	W18-2024	W20-2024
ST25DV16KC-IE8T3	25DV16KIER8T3UTC	25DV16KIER8T3UTD	available	available	W03-2024
ST25DV16KC-IE6C3	25DV16KIER6C3UGC	25DV16KIER6C3UGD	W15-2024	W18-2024	W20-2024
ST25DV16KC-IE8C3	25DV16KIER8C3UGC	25DV16KIER8C3UGD	W14-2024	W18-2024	W20-2024
ST25DV16KC-JF6D3	25DV16KJFR6D3UGC	25DV16KJFR6D3UGD	W14-2024	W17-2024	W20-2024
ST25DV16KC-JF8D3	25DV16KJFR8D3UGC	25DV16KJFR8D3UGD	W22-2024	W27-2024	W29-2024
ST25DV64KC-IE6S3	25DV64KIER6S3UHC	25DV64KIER6S3UHD	W14-2024	W21-2024	W23-2024
ST25DV64KC-IE8S3	25DV64KIER8S3UHC	25DV64KIER8S3UHD	W15-2024	W21-2024	W23-2024
ST25DV64KC-IE6T3	25DV64KIER6T3UTC	25DV64KIER6T3UTD	W14-2024	W21-2024	W23-2024
ST25DV64KC-IE8T3	25DV64KIER8T3UTC	25DV64KIER8T3UTD	W15-2024	W21-2024	W23-2024
ST25DV64KC-IE6C3	25DV64KIER6C3UGC	25DV64KIER6C3UGD	W17-2024	W21-2024	W23-2024
ST25DV64KC-IE8C3	25DV64KIER8C3UGC	25DV64KIER8C3UGD	W18-2024	W21-2024	W23-2024
ST25DV64KC-JF6D3	25DV64KJFR6D3UGC	25DV64KJFR6D3UGD	W23-2024	W27-2024	W29-2024
ST25DV64KC-JF8D3	25DV64KJFR8D3UGC	25DV64KJFR8D3UGD	W24-2024	W27-2024	W29-2024

ST25DV04KC, ST25DV16KC, ST25DV64KC design improvement

Source Documents & Reference Documents			
Source document Title	Rev.:	Date:	

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 : ST25DV04KC, ST25DV16KC and ST25DV64KC

design improvement

PCN Reference : MDG/23/14500

Subject : Public Products List

Dear Customer,

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

ST25DV64KC-IE8T3	ST25DV04KC-JF8D3	ST25DV04KC-JF6L3
ST25DV64KC-IE6S3	ST25DV64KC-IE8S3	ST25DV64KC-IE6C3
ST25DV16KC-JF6D3	ST25DV04KC-IE6C3	ST25DV04KC-IE8C3
ST25DV04KC-IE8T3	ST25DV16KC-IE8S3	ST25DV16KC-IE6S3
ST25DV04KC-IE6T3	ST25DV16KC-JF8D3	ST25DV04KC-JF6D3
ST25DV64KC-IE6T3	ST25DV64KC-IE8C3	ST25DV04KC-IE6S3
ST25DV64KC-JF6D3	ST25DV16KC-IE8T3	ST25DV64KC-JF8D3
ST25DV04KC-IE8S3	ST25DV16KC-IE6T3	ST25DV16KC-IE8C3
ST25DV16KC-IE6C3		

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