


PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MDG/22/13712	
1.3 Title of PCI	ST25R3916/17/18/16B/17B, NFC Reader IC new product introduction with non-wettable thin QFN package	
1.4 Product Category	ST25R3916/17/18/16B/17B-AQWT	
1.5 Issue date	2022-10-11	

2. PCI 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	Benoit RODRIGUES
2.1.2 Marketing Manager	Sylvain FIDELIS
2.1.3 Quality Manager	Rita PAVANO

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	(Not Defined)	ams OSRAM AG, Austria TSMC Shanghai, China JSCC, China

4. Description of change

	Old	New
4.1 Description	The ST25R3916/17/18/16B/17B-AQWT currently assembled at UTAC (Thailand) in wettable flank QFN package...	...will be assembled & tested in non-wettable flank thin QFN at JSCC (China) with a new product ordering code ST25R3916/17/18/16B/17B-AQET.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	- Form: Marking change - Fit: Package dimensions: Package thickness change and dimension of solder pin. - Function: No change	

5. Reason / motivation for change

5.1 Motivation	ST is committed to ensure delivery to its customers and needs to react to market situations trying to mitigate any potential delivery bottlenecks in advance to ensure best delivery times and availability to customers.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	See details
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7. Timing / schedule

7.1 Date of qualification results	2022-11-11
7.2 Intended start of delivery	2022-11-04
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)
13712 Public product.pdf 13712 PCI NEW PRODUCT ST25R3916-18-16B-17B-AQET.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
	ST25R3916-AQWT	
	ST25R3916B-AQWT	
	ST25R3917-AQWT	
	ST25R3917B-AQWT	
	ST25R3918-AQWT	

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ST25R3916/17/18/16B/17B, NFC Reader IC new product introduction with non-wettable thin QFN package

What is the change?

The ST25R3916/17/18/16B/17B-AQWT currently assembled at UTAC (Thailand) in wettable flank QFN package will be assembled & tested in non-wettable flank thin QFN at JSCC (China) with a new product ordering code ST25R3916/17/18/16B/17B-AQET.

The ST25R3916/17/18/16B/17B-AQET are fully compatible with current AQWT versions with same functionalities and electrical features.

Package size of the new non-wettable flank thin QFN package is compatible with current QFN package. Package thickness of the new non wettable flank thin QFN is reduced from 1mm to 0.6mm. Refer to the datasheet for a list of all dimensions.

Concurrent to this change, the ams OSRAM wafer fab 8 (Austria) will be implemented as a second source for the new products ST25R3916/17/18/16B/17B-AQET in addition to the TSMC wafer fab 10 (China), wafer fab process flow and equipment do not change.

Customers will be informed in time before this second source will be activated.

Current ST25R3916/17/18/16B/17B-AQWT will only be available for low volumes, not recommended for new designs, ST recommends the new ST25R3916/17/18/16B/17B-AQET for faster availability and to secure demand.

Why?

ST is committed to ensure delivery to its customers and needs to react to market situations trying to mitigate any potential delivery bottlenecks in advance to ensure best delivery times and availability to customers.

When?

First products can be shipped by wk44 2022. Flow used and final good delivered is at the discretion of ST.

How will the change be qualified?

The new product has been qualified using the standard STMicroelectronics Corporate and MMY (Memory) division Procedures for Quality and Reliability.

The Qualification Report RERMMY2202 will be available on request after Week 45/2022.

What is the impact of the change?

- **Form:** Marking change (see details next page)
- **Fit:** Package dimensions: Package thickness change and dimension of solder pin.
- **Function:** No change

How can the change be seen?

- BOX LABEL MARKING

On the BOX LABEL, the difference is visible on the Commercial Part Number and the Finished Good part Number. Also, the change is visible inside the Trace code where the “Assembly Country & Plant” digits are reflecting the new plant as **GQ** for **JSCC (China)** instead of FN for UTAC (Thailand):

→ Example for ST25R3916-AQET

STMicroelectronics

Manufactured under patents or patents pending
Country Of Origin: XXXX
Pb-free 2nd Level Interconnect
MSL: 3

PBT: 260 °C

TYPE: **ST25R3916-AQET**
 25R3916-AQETRASB

Total Qty: **3000**

Trace Codes **GQ**YWWLLL **P2** **GQ**

Marking 25R3916

Bulk ID X0X00XXX0000

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Please provide the bulk ID for any inquiry

Commercial Part Number:
E: new products in non-wettable flank thin QFN (JSCC (China) assembly)
W: current products in wettable flank QFN (UTAC (Thailand) assembly)

Finished Good Part Number:
A: new products manufactured at ams OSRAM wafer fab second source
T: current & new products manufactured at TSMC wafer fab

GQ: JSCC (China) assembly country & plant
FN: current UTAC (Thailand) assembly country & plant

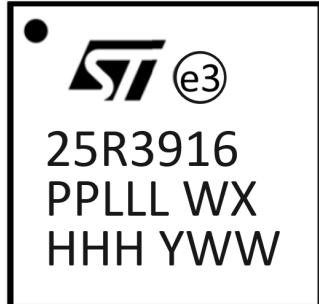
GQ: JSCC (China) Test & Finishing country & plant
FN: current UTAC (Thailand) Test & Finishing country & plant

P2: ams OSRAM wafer fab 8 (Austria)
S9: current TSMC wafer fab 10 (Taiwan)

How can the change be identified?

- **Form: DEVICE MARKING**

On the device marking, the change is visible inside the trace code where the Assembly Country & Plant “PP” is changing from FN to **GQ**. Also, the Country Of origin “HHH” is changing from THA to **CHN**.



Legend:

25R3916 = Product name

PP = Assembly Country & plant: - **GQ** for **new product assembled & tested at JSCC (China)**
- FN for current product at UTAC (Korea)

LLL = Sequence

WX = wafer plant : **P2** for product manufactured in ams OSRAM wafer fab (Austria)
S9 for product manufactured in TSMC fab 10 (Taiwan)

HHH = Country of origin: - **CHN** for **new product**, THA for current product.

Y = Assembly year

WW = Assembly week

Appendix A- Product Change Information

Product family / Commercial products:	NFC Reader IC
Customer(s):	All
Type of change:	New product introduction
Reason for the change:	Service improvement
Description of the change:	New product introduction
Forecast date of the change: (Notification to customer)	Week 41 / 2022
Forecast date of <u>Qualification samples</u> availability for customer(s):	See details in APPENDIX B
Forecast date for the internal STMicroelectronics change, <u>Qualification Report</u> availability:	Pending
Marking to identify the changed product:	ST25R391x-AQET on Box Label
Description of the qualification program:	Standard ST Microelectronics Corporate Procedures for Quality and Reliability
Product Line(s) and/or Part Number(s):	See Appendix B
Manufacturing location:	ams OSRAM AG, Austria TSMC Shanghai, China JSCC, China
Estimated date of first shipment:	Samples : Available Production : wk44

ST25R3916/17/18/16B/17B, NFC Reader IC new product introduction
with non-wettable thin QFN package

Appendix B: Concerned Commercial Part Numbers:

Current Commercial Part Numbers	New Commercial Part Numbers	Samples availability
ST25R3916-AQWT	ST25R3916-AQET	Available
ST25R3917-AQWT	ST25R3917-AQET	Nov/2022
ST25R3918-AQWT	ST25R3918-AQET	Apr/2023
ST25R3916B-AQWT	ST25R3916B-AQET	Jan/2023
ST25R3917B-AQWT	ST25R3917B-AQET	Jan/2023

[illegible]

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

PCI Title : ST25R3916/17/18/16B/17B, NFC Reader IC new product introduction
with non-wettable thin QFN package

PCI Reference : MDG/22/13712

Subject : Public Products List

Dear Customer,

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

ST25R3916-AQWT	ST25R3917B-AQWT	ST25R3916B-AQWT
ST25R3918-AQWT	ST25R3917-AQWT	



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