

## PRODUCT / PROCESS CHANGE NOTIFICATION

### 1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	MDG/23/13947
1.3 Title of PCN	ST25R3914-AQWT wafer fab / EWS dual source and datasheet update
1.4 Product Category	ST25R3914-AQWT
1.5 Issue date	2023-03-27

### 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
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication	See detailed description

### 4. Description of change

	Old	New
4.1 Description	The ST25R3914-AQWT is currently following the combination: ams OSRAM wafer fab 8 (Austria) / ams OSRAM EWS (Austria).	A second source will be implemented with the combination: TSMC wafer fab 10 (China) / ST Toa Payoh EWS (Singapore).
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	<ul style="list-style-type: none"> <li>- Form: Marking change to reflect the different Fab location</li> <li>- Fit: No change</li> <li>- Function: No change, except register 0x3F readout. Readout changed from 0Bh to 0Dh.</li> </ul>	

### 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. Therefore, a dual source will be introduced for the ST25R3914-AQWT to ensure best delivery times and availability to customers.
5.2 Customer Benefit	DOUBLE SOURCING

### 6. Marking of parts / traceability of change

6.1 Description	N/A
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### 7. Timing / schedule

7.1 Date of qualification results	2023-06-02
7.2 Intended start of delivery	2023-09-01
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)**

13947 Public product.pdf  
13947 PCN ST25R3914 dual source.pdf

**10. Affected parts**

<b>10. 1 Current</b>		<b>10.2 New (if applicable)</b>
<b>10.1.1 Customer Part No</b>	<b>10.1.2 Supplier Part No</b>	<b>10.1.2 Supplier Part No</b>
	ST25R3914-AQWT	

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## PRODUCT / PROCESS CHANGE NOTIFICATION

### ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

#### What is the change?

The ST25R3914-AQWT is currently following the combination: ams OSRAM wafer fab 8 (Austria) / ams OSRAM EWS (Austria).

A **second source** will be implemented with the combination: **TSMC wafer fab 10 (China) / ST Toa Payoh EWS (Singapore)**.

Final test machine models and test program do not change, product name marking will remain the same. Both sources will be used for production based on the same silicon and chip housing.

**Datasheet is updated** (DS11837 Rev 8 to Rev 9) to add the internal LDO current of 200mA in the operating conditions (currently only mentioned in section “Power supply system”) and the 500mA as maximum peak current bypassing the internal LDO.

In section “IC identity register” the new version number of the silicon is added to reflect the different mask sets of the fabs. (Version changed from **0Bh->0Dh**)

#### 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. Therefore, a dual source will be introduced for the ST25R3914-AQWT to ensure best delivery times and availability to customers.

#### When?

First products from new production line can be shipped by Week 35 / 2023. Flow used and final good delivered is at the discretion of ST.

#### How will the change be qualified?

The products remain strictly the same from the electrical and mechanical points of view. The additional flow has been qualified using the standard STMicroelectronics Corporate and MMY (Memory) division Procedures for Quality and Reliability.

Qualification Report available Week 22 / 2023.

#### What is the impact of the change?

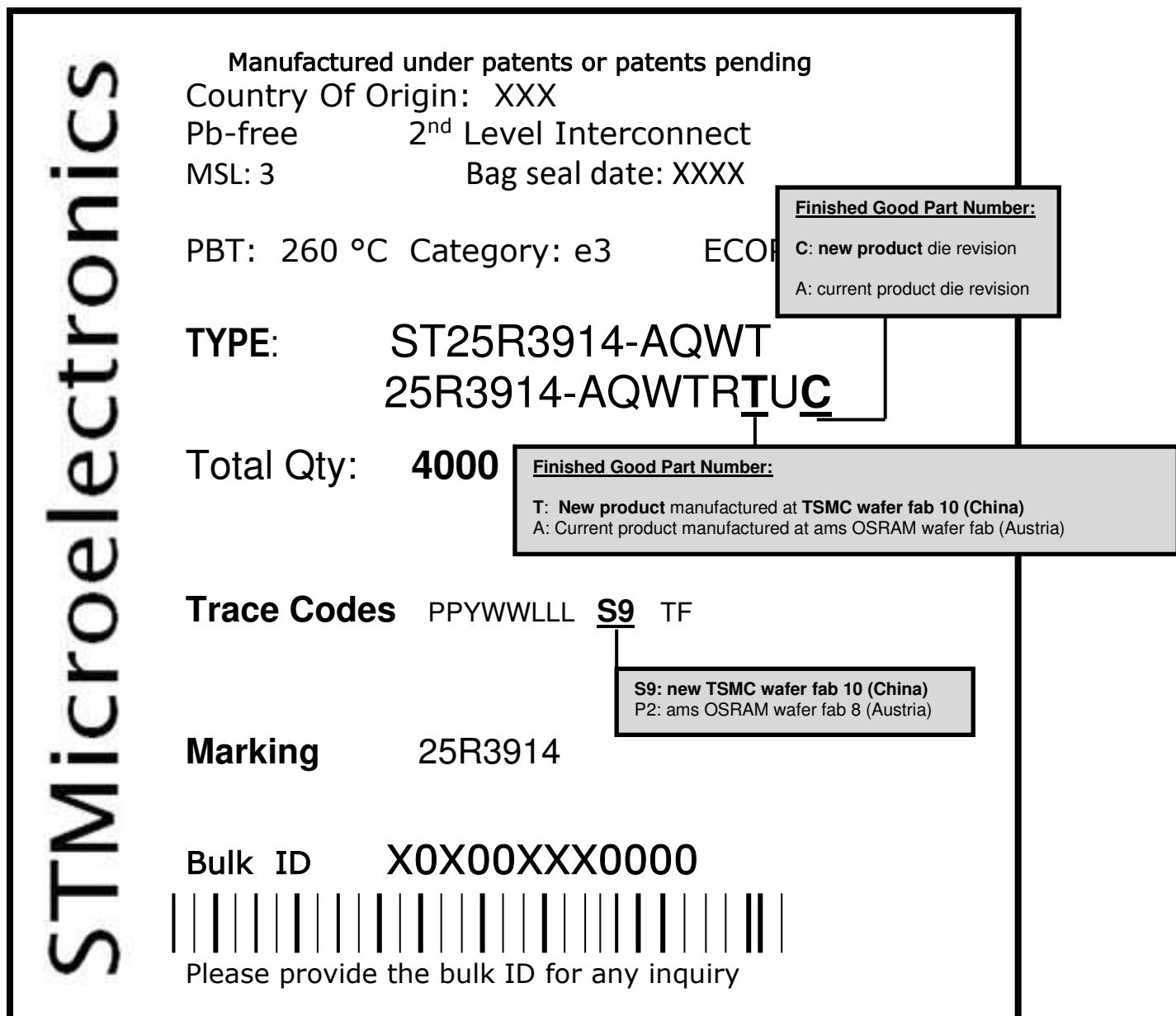
- Form:** Marking change to reflect the different Fab location
- Fit:** No change
- Function:** No change, except register 0x3F readout. Readout changed from 0Bh to 0Dh.

# ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

## How can the change be seen?

### - BOX LABEL MARKING

On the BOX LABEL, the difference is visible on the Finished Good part Number. Also, the change is visible inside the Trace code where the “wafer fab” digits are reflecting the new plant as S9 for **TSMC wafer fab 10 (China)** instead of P2 for ams OSRAM (Austria):

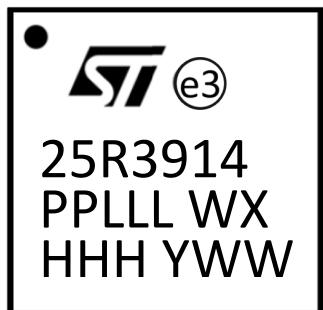


# ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

## How can the change be identified?

### - Form: DEVICE MARKING

On the device marking, the change is visible inside the trace code where the **wafer fab country & plant** code “WX” is changing from P2 to **S9**.



### Legend:

25R3914 = Product name

PP = Assembly Country & plant

LLL = Sequence

WX = wafer plant: **S9** for product manufactured in **TSMC fab 10** (China)

P2 for product manufactured in ams OSRAM wafer fab (Austria)

HHH = Country of origin

Y = Assembly year

WW = Assembly week

## ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

<b>Product family / Commercial products:</b>	ST25R3914-AQWT
<b>Customer(s):</b>	All
<b>Type of change:</b>	Double sourcing
<b>Reason for the change:</b>	Service improvement
<b>Description of the change:</b>	Implementation of a second source for the wafer factory and EWS
<b>Forecast date of the change: (Notification to customer)</b>	Week 13 / 2023
<b>Forecast date of <u>Qualification samples</u> availability for customer(s):</b>	Week 15 / 2023
<b>Forecast date for the internal STMicroelectronics change, <u>Qualification Report</u> availability:</b>	Week 22 / 2023
<b>Marking to identify the changed product:</b>	Wafer Plant code on Marking
<b>Estimated date of first shipment:</b>	Earliest by Week 35 / 2023

ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

## Document Revision History

## 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 :** ST25R3914-AQWT wafer fab / EWS dual source and datasheet update

**PCN Reference :** MDG/23/13947

**Subject :** Public Products List

Dear Customer,

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

ST25R3914-AQWT		
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