

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/17/10544	
1.3 Title of PCN	TSMC (Taiwan) additional source for STM32F400x 256K products in M10/90nm technology	
1.4 Product Category	STM32F401xB & STM32F401xC products in M10/90nm technology	
1.5 Issue date	2017-12-21	

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	Michel BUFFA
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
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication	TSMC Fab14 (Taiwan)

4. Description of change

	Old	New
4.1 Description	Front-end source: - ST Crolles CRL300 (France)	Front-end sources: - ST Crolles CRL300 (France) - Existing source - TSMC Fab14 (Taiwan) - Additional source - There is no change in the product functionality. Please refer to PCN 10544 – Additional information attached document.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	no change	

5. Reason / motivation for change

5.1 Motivation	Due to the success on the market of STM32 devices, ST Microcontrollers Division decided to qualify an additional front-end site to maintain state of the art service level to our customers thanks to extra capacity.
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	Change is visible through diffusion traceability plant, in the marking: - "VQ" for ST Crolles CRL300 (France) - "9R" for TSMC Fab14 (Taiwan) Please refer to PCN 10544 – Additional information attached document.
-----------------	---

7. Timing / schedule

7.1 Date of qualification results	2018-04-20
7.2 Intended start of delivery	2018-04-20
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	10544 MDG-MCD RER1715 PCN10333 PCN10544 TSMC Taiwan.pdf
-----------------	---

8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2017-12-21
--	----------------------------	------------	------------

9. Attachments (additional documentations)
10544 Public product.pdf 10544 PCN10544_Division Note M10 Additional Source.pdf 10544 MDG-MCD RER1715 PCN10333 PCN10544 TSMC Taiwan.pdf 10544 PCN10544_Additional information.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
	STM32F401CBU6	
	STM32F401CBU7	
	STM32F401CCU6	
	STM32F401RBT6	
	STM32F401RCT6	
	STM32F401VBT6	
	STM32F401VCT6	

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2016 STMicroelectronics – All rights reserved



**PRODUCT/PROCESS
CHANGE NOTIFICATION
PCN 10544 – Additional information**

**TSMC (Taiwan) additional source
for STM32F401xB & STM32F401xC products
in M10/90nm technology**

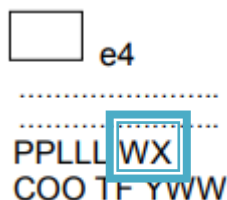
MDG - Microcontrollers Division (MCD)

What are the changes?

- Fab 14 TSMC is a fab already diffusing 90nm used for STM32L4 products.
- Masks are identical to the mother fab ST Crolles CRL300 except few changes on dummy structures to adapt to fab equipments.
- Design database remains the same.

How can the change be seen?

The standard marking is:



WX code indicates the diffusion traceability plant code.

Please refer to the DataSheet for marking details.

The marking is changing as follows:

Existing		Additional	
WX code	Fab	WX code	Fab
VQ	ST Crolles CRL300 (France)	9R	TSMC Fab14 (Taiwan)