


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	MDG/19/10816	
<b>1.3 Title of PCN</b>	TSMC (Taiwan) additional source for STM32F4 & STM32F7 listed products in M10/90nm technology	
<b>1.4 Product Category</b>	STM32F72/3 & STM32F46/7 & STM32F76/7 products in M10/90nm technology	
<b>1.5 Issue date</b>	2019-02-10	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	ROBERTSON HEATHER
<b>2.1.2 Phone</b>	+1 8475853058
<b>2.1.3 Email</b>	heather.robertson@st.com
<b>2.2 Change responsibility</b>	
<b>2.2.1 Product Manager</b>	Ricardo Antonio DE SA EARP
<b>2.1.2 Marketing Manager</b>	Veronique BARLATIER
<b>2.1.3 Quality Manager</b>	Pascal NARCHE

**3. Change**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
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**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	Front-end source: - ST Crolles CR300 (France)	Front-end sources: - ST Crolles CR300 (France) - Existing source - TSMC Fab14 (Taiwan) - Additional source - There is no change in the product functionality. Please refer to PCN 10816 – Additional information attached document.
<b>4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?</b>	no change	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	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.
<b>5.2 Customer Benefit</b>	CAPACITY INCREASE

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

<b>6.1 Description</b>	Change is visible through diffusion traceability plant, in the marking: - "VQ" for ST Crolles CR300 (France) - "9R" for TSMC Fab14 (Taiwan) Please refer to PCN 10816 – Additional information attached document.
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2019-10-01
<b>7.2 Intended start of delivery</b>	2019-11-01
<b>7.3 Qualification sample available?</b>	Not Applicable

**8. Qualification / Validation**

<b>8.1 Description</b>	10816 MDG-MCD RER1715 - PCN10333 - PCN10544 - PCN10595 - PCN10703 - PCN10596 - PCN10671 - PCN 10816 TSMC Taiwan.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2019-02-10

**9. Attachments (additional documentations)**

10816 Public product.pdf  
10816 PCN10816\_Division Note M10 Additional Source.pdf  
10816 MDG-MCD RER1715 - PCN10333 - PCN10544 - PCN10595 - PCN10703 - PCN10596 - PCN10671 - PCN 10816 TSMC Taiwan.pdf  
10816 PCN10816\_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
	STM32F469AIH6	
	STM32F469BIT6	
	STM32F469IGT6	
	STM32F469IIT6	
	STM32F469NIH6	
	STM32F469VGT6	
	STM32F479BIT6	
	STM32F479IIT6	
	STM32F479NIH6	
	STM32F722ICK6	
	STM32F722IEK6	
	STM32F722RCT6	
	STM32F722RET6	
	STM32F722VCT6	
	STM32F722VET6	
	STM32F722ZCT6	
	STM32F722ZET6	
	STM32F723IEK6	
	STM32F723IET6	
	STM32F723ZCT6	
	STM32F723ZEI6	
	STM32F723ZET6	
	STM32F730I8K6	
	STM32F730R8T6	
	STM32F730V8T6	
	STM32F730Z8T6	
	STM32F732IEK6	
	STM32F732IET6	
	STM32F732RET6	
	STM32F732VET6	
	STM32F732ZET6	
	STM32F733IET6	
	STM32F733ZET6	
	STM32F765BGT6	
	STM32F765BIT6	
	STM32F765IGK6	
	STM32F765IGT6	
	STM32F765IIK6	
	STM32F765IIT6	
	STM32F765NGH6	

	STM32F765NIH6	
	STM32F765VGT6	
	STM32F765VGT6TR	
	STM32F765VGT7	
	STM32F765VIT6	
	STM32F765ZGT6	
	STM32F765ZIT6	
	STM32F767BGT6	
	STM32F767BIT6	
	STM32F767IGK6	
	STM32F767IGT6	
	STM32F767IIK6	
	STM32F767IIT6	
	STM32F767NGH6	
	STM32F767NIH6	
	STM32F767VGT6	
	STM32F767VIT6	
	STM32F767ZGT6	
	STM32F767ZIT6	
	STM32F769BGT6	
	STM32F769BIT6	
	STM32F769IGT6	
	STM32F769IIT6	
	STM32F769NGH6	
	STM32F769NIH6	
	STM32F777BIT6	
	STM32F777IIK6	
	STM32F777IIT6	
	STM32F777NIH6	
	STM32F777VIT6	
	STM32F777ZIT6	
	STM32F779BIT6	
	STM32F779IIT6	
	STM32F779NIH6	

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## Public Products List

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**PCN Title :** TSMC (Taiwan) additional source for STM32F4 & STM32F7 listed products in M10/90nm technology

**PCN Reference :** MDG/19/10816

**Subject :** Public Products List

Dear Customer,

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

STM32F469IHK6	STM32F767IHK6	STM32F722RET6
STM32F732VET6	STM32F722ZCT6	STM32F469IEH6
STM32F767ZGT6	STM32F722VCT6	STM32F767NIH6
STM32F469NIH6	STM32F767BGT6	STM32F765VGT7
STM32F469BIT7	STM32F730IHK6	STM32F469BET6
STM32F767VGT6	STM32F479IHK6	STM32F765VGT6
STM32F765NIH6TR	STM32F479IIT6	STM32F765NIH6
STM32F469VIT6	STM32F765VGH6TR	STM32F479AIY6TR
STM32F765NGH6	STM32F723VEY6TR	STM32F732IET6
STM32F765IIT6	STM32F767ZIT6	STM32F479NGH6
STM32F777VIH6	STM32F469IGH6	STM32F469ZIT6
STM32F765NGH7	STM32F469IGH6TR	STM32F732ZET6
STM32F469NGH6	STM32F469AGH6	STM32F769AIY6TR
STM32F765VIT6	STM32F479NIH6	STM32F479VGT6
STM32F469AIH6	STM32F777IHK7	STM32F779AIY6TR
STM32F767BIT6	STM32F765BIT6	STM32F479IGH6
STM32F723IEK6	STM32F479ZGT6	STM32F765ZIT7
STM32F723ZET7	STM32F765IGK6	STM32F765VIH6
STM32F722ZET6TR	STM32F730V8T6	STM32F765VGH6
STM32F479ZIT6	STM32F722IET6	STM32F723ZCT6
STM32F479AIH6	STM32F733IET6	STM32F722ZET6
STM32F769BIT6	STM32F777NIH7	STM32F767NIH7
STM32F769IIT6	STM32F733ZET6	STM32F723ZEI6
STM32F722IEK6	STM32F722RCT6	STM32F469NIH6TR
STM32F722RET7	STM32F777NIH6	STM32F722ICK6
STM32F469AGH6TR	STM32F469ZET6	STM32F479AGH6
STM32F732IEK6	STM32F469NIH7	STM32F733VEY6TR
STM32F469IIT6	STM32F779NIH6	STM32F777ZIT6
STM32F767VGH6	STM32F777IIT6	STM32F479VIT6
STM32F469NEH6	STM32F767IGK6	STM32F767VGT7
STM32F777NIH7TR	STM32F479BGT6	STM32F765IHK7
STM32F733ZEI6	STM32F765BGT6	STM32F767VIH6
STM32F767VIT6	STM32F469BIT6	STM32F722IET7
STM32F765VGT6TR	STM32F730Z8T6	STM32F469VET6
STM32F469IGT6	STM32F767IGT6	STM32F723IET7
STM32F723ZCI6	STM32F777VIT6	STM32F469AEH6



## Public Products List

STM32F765ZIT6	STM32F723IET6	STM32F777BIT6
STM32F765NIH7	STM32F723ICK6	STM32F779BIT6
STM32F769IGT6	STM32F767IIT6	STM32F765ZIT7TR
STM32F777IIK6	STM32F769BGT6	STM32F769NIH6
STM32F722ICT6	STM32F723ICT6	STM32F765IGT6
STM32F767NGH6	STM32F733IEK6	STM32F765ZGT6TR
STM32F730R8T6	STM32F765IIT7	STM32F723ZET6
STM32F722VET6	STM32F765NGH7TR	STM32F469AGY6TR
STM32F732RET6	STM32F778AIY6TR	STM32F469ZGT6
STM32F479BIT6	STM32F469VGT6	STM32F469AIY6TR
STM32F769NGH6	STM32F765IIK6	STM32F765ZGT6
STM32F779IIT6	STM32F469BGT6	STM32F765ZGT7



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**PRODUCT/PROCESS  
CHANGE NOTIFICATION  
PCN 10816 – Additional information**

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**TSMC (Taiwan) additional source  
for STM32F4 & STM32F7 listed products  
in M10/90nm technology**

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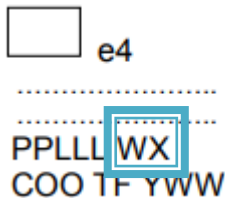
**MDG - Microcontrollers Division (MCD)**

Fab 14 TSMC is a fab already diffusing 90nm used for STM32L4 products.

Design database remains the same, except few changes on dummy structures at mask level to adapt to fab equipment.

**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 CR300 (France)	9R	TSMC Fab14 (Taiwan)