


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	MDG/18/10671	
<b>1.3 Title of PCN</b>	TSMC (Taiwan) additional source for STM32F4 listed products in M10/90nm technology	
<b>1.4 Product Category</b>	STM32F401xD/Ex & STM32F411/412/413x & STM32F423x & STM32F446x products in M10/90nm technology	
<b>1.5 Issue date</b>	2018-06-14	

**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>	Michel BUFFA
<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 10671 – 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 10671 – Additional information attached document.
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2018-09-14
<b>7.2 Intended start of delivery</b>	2018-09-14
<b>7.3 Qualification sample available?</b>	Not Applicable

**8. Qualification / Validation**

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<b>8.1 Description</b>	10671 MDG-MCD RER1715 - PCN10333 - PCN10544 - PCN10595 - PCN10703 - PCN10596 - PCN10671 TSMC Taiwan.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2018-06-14

**9. Attachments (additional documentations)**

10671 Public product.pdf  
10671 PCN10671\_Division Note M10 Additional Source.pdf  
10671 MDG-MCD RER1715 - PCN10333 - PCN10544 - PCN10595 - PCN10703 - PCN10596 - PCN10671 TSMC Taiwan.pdf  
10671 PCN10671\_Additional information.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>	
	STM32F401CEU6		
	STM32F401RDT6		
	STM32F401RET6		
	STM32F401VDT6		
	STM32F401VET6		
	STM32F411CCU6TR		
	STM32F411CEU6		
	STM32F411CEY6TR		
	STM32F411RCT6		
	STM32F411RET6		
	STM32F411VCT6		
	STM32F411VEH6		
	STM32F411VET6		
	STM32F412RGT6		
	STM32F412VET6		
	STM32F412ZGT6		
	STM32F413CGU6		
	STM32F413CHU6		
	STM32F413RGT6		
	STM32F413RHT6		
	STM32F413VGH6		
	STM32F413VGT6		
	STM32F413VHH6		
	STM32F413VHT6		
	STM32F413ZGJ6		
	STM32F413ZHJ6		
	STM32F413ZHT6		
	STM32F446MEY6TR		
	STM32F446RCT6		
	STM32F446RET6		
	STM32F446VET6		
	STM32F446ZCT6		
	STM32F446ZEH6		
	STM32F446ZEJ6		
	STM32F446ZET6		
	STM32F446ZEJ6TR		

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

**PCN Reference :** MDG/18/10671

**Subject :** Public Products List

Dear Customer,

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

STM32F401RET6JTR	STM32F446ZCT6JTR	STM32F412RGY6PTR
STM32F446ZEJ7TR	STM32F413ZGJ6TR	STM32F401CEY6TR
STM32F413MHY6TR	STM32F412VGT6	STM32F412VGH6
STM32F412RGY6TR	STM32F412ZEJ3	STM32F412CGU6
STM32F412ZGJ6	STM32F401RET6TR	STM32F412VEH3TR
STM32F412ZGJ6TR	STM32F413CGU6	STM32F412RET6TR
STM32F423ZHT3	STM32F401CEU6	STM32F446ZEJ6
STM32F413ZHT6	STM32F411RCT6	STM32F411VET6
STM32F412RGT6	STM32F413ZGJ6	STM32F413RGT6
STM32F413VHT6	STM32F412VGT6TR	STM32F412ZEJ6
STM32F411RCT7	STM32F412VET3TR	STM32F413CHU6
STM32F446ZEH7TR	STM32F413ZHJ6	STM32F446RCT6
STM32F446ZEH6	STM32F412ZGT6	STM32F423CHU6
STM32F446RET7TR	STM32F412REY6TR	STM32F423MHY3TR
STM32F412ZGT6TR	STM32F401RET6	STM32F401RET7
STM32F413VGT6	STM32F446ZEJ6TR	STM32F446ZEJ7
STM32F446VET7	STM32F411CEY3TR	STM32F411VCT6TR
STM32F412VET6	STM32F413RGT6TR	STM32F423VHH6
STM32F401CDY6TR	STM32F413VHH6	STM32F412RET6
STM32F411VEH6	STM32F412RGT6TR	STM32F401CDU6TR
STM32F401VEH6	STM32F446ZCT6	STM32F411CCY6TR
STM32F446ZET7	STM32F401RDT6TR	STM32F446MCY6TR
STM32F446RCT7	STM32F401VET6TR	STM32F412VEH6
STM32F446VET6	STM32F446ZET6	STM32F446RCT6TR
STM32F446RET6	STM32F411CEU6TR	STM32F401CDU6
STM32F423MHY6TR	STM32F411RET6	STM32F412ZET6
STM32F446VET6TR	STM32F411RET6TR	STM32F411CEU6
STM32F413VGH6	STM32F446RCT7TR	STM32F411VCT6
STM32F446RET7	STM32F446ZCJ6	STM32F446ZEH7
STM32F423ZHJ6	STM32F412CGU6TR	STM32F423ZHT6
STM32F423VHT6	STM32F446ZEH6TR	STM32F411CEU7
STM32F446VCT6	STM32F413MGY6TR	STM32F401VDH6
STM32F446VCT7	STM32F411CCU6TR	STM32F413ZHT3
STM32F446MEY6TR	STM32F411RET7	STM32F401VDT6
STM32F412VET3	STM32F411CEY6TR	STM32F423RHT6
STM32F411VEH6TR	STM32F446ZCH7	STM32F411RCT7TR



## Public Products List

STM32F412VET6TR	STM32F401RDT6	STM32F413ZGT6
STM32F413RHT6	STM32F412CEU6	STM32F401VDT6TR
STM32F401VET6	STM32F446ZCH6	



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