PRODUCT / PROCESS CHANGE NOTIFICATION

	1. PCN basic data
1.1 Company	STMicroelectronics International N.V
1.2 PCN No.	MMS/15/9484
1.3 Title of PCN	Capacity increase for LQFP 48 7x7 products listed below
1.4 Product Category	LQFP 48 7x7 package products listed in 9484_Detailed description attached document.
1.5 Issue date	2015-12-21

	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	Daniel COLONNA
2.1.3 Quality Manager	Pascal NARCHE

	3. Change	
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer of a full process or process brick (process step, control plan, recipes) from one site to another site		ST Muar (Malaysia), STATS ChipPAC Shanghai (China), Amkor ATP (Philippines).

	4. Description of change	
	Old	New
4.1 Description	Assembly plants : ST Muar (Malaysia), STATS ChipPAC Shanghai (China), Amkor ATP (Philippines)	ST Microcontrollers Division has decided to add a new line in ST Muar (Malaysia) assembly site, for LQFP 48 7x7 products listed below. See more information on 9484_Detailed description attached document.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Form : lead color and suface finish change depe See in 9484_Detailed description attached docu	

	5. Reason / motivation for change
5.1 Motivation	ST Microcontrollers Division add a LQFP 48 7x7 products on a new line in Muar (Malaysia) assembly site, to increase assembly capacity.
5.2 Customer Benefit	CAPACITY INCREASE

	6. Marking of parts / traceability of change
6.1 Description	See in 9484_Detailed description attached document.

	7. Timing / schedule
7.1 Date of qualification results	2016-04-03
7.2 Intended start of delivery	2016-05-03
7.3 Qualification sample available?	Upon Request

	8. Qualification / Validation		
8.1 Description	9484_reliability plan_LQFP7x7 48L RERMCD1514.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2015-12-21

9. Attachments (additional documentations)

9484PpPrdtLst.pdf 9484_Detailed description.pdf 9484_reliability plan_LQFP7x7 48L RERMCD1514.pdf

	10. Affected parts	S
	10. 1 Current	10.2 New (if applicable)
0.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	STM32F030C6T6	
	STM32F030C8T6	
	STM32F031C4T6	
	STM32F031C6T6	
	STM32F042C6T6	
	STM32F051C4T6	
	STM32F051C6T6	
	STM32F051C8T6	
	STM32F051C8T6TR	
	STM32F070CBT6	
	STM32F071CBT6	
	STM32F072CBT6	
	STM32F091CCT6	
	STM32F100C4T6B	
	STM32F100C6T6B	
	STM32F100C8T6B	
	STM32F100CBT6B	
	STM32F101C6T6A	
	STM32F101C8T6	
	STM32F101CBT6	
	STM32F102C6T6A	
	STM32F102CBT6	
	STM32F103C4T6A	
	STM32F103C6T6A	
	STM32F103C6T7A	
	STM32F103C8T6	
	STM32F103C8T7	
	STM32F103CBT6	
	STM32F103CBT7	
	STM32F302C8T6	
	STM32F303C8T6	
	STM32F303CCT6	
	STM32F334C4T6	
	STM32F334C6T6	
	STM32F334C8T6	
	STM32F373C8T6	
	STM32F373CBT6	
	STM32F373CCT6	
	STM32L051C6T6	
	STM32L051C8T3	
	STM32L051C8T6	
	STM32L052C8T6	
	STM32L053C8T6	
	STM8S207C6T6	

STM8S207C8T3	
STM8S207C8T6	
STM8S207CBT6	
STM8S208C6T3	
STM8S208C8T6	
STM8S208CBT6	

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PRODUCT/PROCESS CHANGE NOTIFICATION PCN 9484 - Detailed description

Capacity increase for LQFP 48 7x7 products listed below

MMS - Microcontrollers Division (MCD)

What are the changes?

On LQFP 48 7x7 products listed below, the assembly plants and Bill Of Materials are as below:

		Existing Bill Of Materials	S	Added Bill Of Materials
Assembly site	STATS ChipPAC	Amkor ATP (Philippines)	ST Muar (Malaysia)	ST Muar (Malaysia)
	Shanghai (China)			
Wire	Gold 0.8mil	Gold 0.8mil	Gold 0.8mil	Silver 0.8mil
Leadframe	Copper Frame	Copper Frame Spot Ag	Pre Plated Frame	Pre Plated Frame
	Spot Ag			
Leadfinishing (*1)	Pure Tin (e3)	Pure Tin (e3)	Rough Ni Pd AgAu (e4)	Rough Ni Pd AgAu (e4)
Resin	Sumitomo G700E	Sumitomo G631HQ	Sumitomo G700LS	Sumitomo G700LS
Glue	Ablestik 3230	Evertech AP4200	Hitachi EN4900	Hitachi EN4900

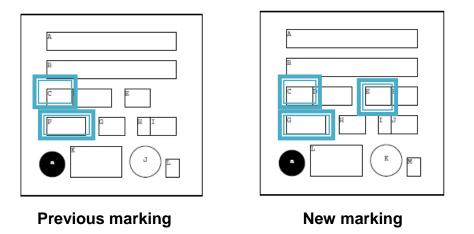
(*1) Lead color and surface finished change depending on leadfinishing

How & when will the change be qualified?

This change will be qualified using the standard STMicroelectronics Corporate Procedures for Quality and Reliability, in full compliancy with the JESD-47 international standard. You can find below Qualification Plan.

How can the change be seen?

The marking instruction indicated on the products is changing.



1/ For products listed below changing from STATS ChipPAC Shanghai (China) to Muar (Malaysia) assembly site:

- C : Assembly plant changes from GH to 99
- Country Of Origin change from CHN (in F) to MYS (in G)
- E: 2 digits are added for enhanced traceability

2/ For products listed below changing from Amkor ATP (Philippines) to Muar (Malaysia) assembly site:

The marking instruction indicated on the products is changing from:

- C: Assembly plant changes from 7B to 99
- Country Of Origin change from PHL (in F) to MYS (in G)
- E: 2 digits are added for enhanced traceability

3/ For products listed below remaining at Muar (Malaysia) assembly site:

- E: 2 digits are added for enhanced traceability

How to order samples?

For all sample request linked to this PCN, please:

- request sample(s) through Notice tool, indicating a single Commercial
 Product for each request.
- insert "PCN 9484" into the remarks of your order.
- place **non standard** sample order using the following field in your system.

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Logist						

List of Commercial Products

STM32F030C6T6 STM32F030C6T6TR STM32F030C8T6 STM32F030C8T6TR STM32F030CCT6 STM32F031C4T6 STM32F031C4T6TR STM32F031C6T6 STM32F031C6T6BOO STM32F031C6T6TR STM32F031C6T7 STM32F038C6T6 STM32F038C6T7 STM32F042C4T6 STM32F042C6T6 STM32F042C6T6TR STM32F051C4T6 STM32F051C6T6 STM32F051C6T6TR STM32F051C6T7 STM32F051C8T6 STM32F051C8T6TR STM32F051C8T7 STM32F051C8T7TR STM32F070C6T6 STM32F070CBT6 STM32F070CBT6TR STM32F071C8T6 STM32F071CBT6 STM32F071CBT6TR STM32F071CBT7 STM32F072C8T6 STM32F072C8T6TR STM32F072CBT6 STM32F072CBT6TR STM32F072CBT7 STM32F078CBT6 STM32F091CBT6 STM32F091CBT6TR STM32F091CCT6 STM32F091CCT6J STM32F091CCT6TR STM32F091CCT7 STM32F098CCT6 STM32F100C4T6B STM32F100C4T6BTR STM32F100C4T7B STM32F100C6T6B STM32F100C6T6BTR STM32F100C6T7B STM32F100C8T6B STM32F100C8T6BTR STM32F100C8T7B

STM32F100C8T7BTR STM32F100CBT6B STM32F100CBT6BTR STM32F100CBT7B STM32F100CBT7BTR STM32F101C4T6A STM32F101C6T6A STM32F101C6T6ATR STM32F101C8GAL STM32F101C8T6 STM32F101C8T6TR STM32F101CBT6 STM32F101CBT6TR STM32F102C4T6A STM32F102C4T6ATR STM32F102C6T6A STM32F102C6T6ATR STM32F102C8T6 STM32F102C8T6TR STM32F102CBT6 STM32F102CBT6TR STM32F103C4T6A STM32F103C6T6A STM32F103C6T6ATR STM32F103C6T7A STM32F103C6T7ATR STM32F103C8T6 STM32F103C8T6TR STM32F103C8T7 STM32F103C8T7TR STM32F103CBT6 STM32F103CBT6TR STM32F103CBT7 STM32F103CBT7TR STM32F301C4T6 STM32F301C6T6 STM32F301C6T6TR STM32F301C8T6 STM32F301C8T6TR STM32F301C8T7 STM32F302C4T6 STM32F302C6T6 STM32F302C8T6 STM32F302C8T7 STM32F302CBT6 STM32F302CBT7 STM32F302CCT6 STM32F302CET6 STM32F303C6T6 STM32F303C8T6 STM32F303CBT6 STM32F303CBT6TR STM32F303CBT7

STM32F303CCT6

STM32F303CCT6TR STM32F303CCT7 STM32F303CET6 STM32F303CET7 STM32F318C8T6 STM32F328C8T6 STM32F334C4T6 STM32F334C6T6 STM32F334C6T7 STM32F334C8T6 STM32F334C8T7 STM32F334C8T7TR STM32F358CCT6 STM32F373C8T6 STM32F373C8T6TR STM32F373CBT6 STM32F373CCT6 STM32F373CCT7 STM32F378CCT6 STM32F398CET6 STM32FEBKC6T6A STM32FEBKC6T6ATR STM32L031C6T7 STM32L041C6T7 STM32L051C6T6 STM32L051C6T6TR STM32L051C8T3 STM32L051C8T6 STM32L051C8T6TR STM32L051C8T7 STM32L052C6T6 STM32L052C8T6 STM32L052C8T6D STM32L052C8T7 STM32L053C6T6 STM32L053C6T7 STM32L053C8T6 STM32L053C8T6D STM32L053C8T6TR STM32L053C8T7 STM32L063C8T6 STM32L071C8T6 STM32L071CBT6 STM32L071CZT6 STM32L071CZT7 STM32L073CZT6 STM32L083CBT6 STM32L083CZT6 STM32L083CZT6TR STM32L151C6T6A STM32L151C8T6A STM32L151CBT6A

STM32L151CBT6D STM32L151CCT6 STM32L151CCT6J STM32L151CCT6TR STM32L152C6T6A STM32L152C8T6A STM32L152CBT6A STM32L152CCT6 STM32L152CCT6D STM32P051C8JAETR STM32P101CBMBD STM32P101CBMBDTR STM32P102C8MAPTR STM32P103C8MBCTR STM32P103CBMAZTR STM32P103MAYATR STM8S005C6T6 STM8S005C6T6TR STM8S007C8T6 STM8S007C8T6TR STM8S105C4T3 STM8S105C4T6 STM8S105C4T6TR STM8S105C6T3 STM8S105C6T3TR STM8S105C6T6 STM8S105C6T6TR STM8S207C6T3 STM8S207C6T6 STM8S207C6T6TR STM8S207C8T3 STM8S207C8T6 STM8S207C8T6TR STM8S207CBT3 STM8S207CBT6 STM8S207CBT6TR STM8S208C6T3 STM8S208C6T6 STM8S208C6T6TR STM8S208C8T6 STM8S208C8T6TR STM8S208CBT6

RERMCD1514 reliability plan for MUAR LQFP7*7 48L - PCN 9484

Reliability Evaluation Plan

Nov 4th,2015

MMS MCD Quality & Reliability Department



PCN 9484 - RERMCD1514 reliability plan for ST Muar LQFP7*7 48L – 2 Capacity increase

- <u>Context</u> :
- In order to increase assembly capacity, ST Microcontrollers Division has decided to add a High Density line in ST Muar (Malaysia) assembly site, for LQFP 48 7x7 products.

RERMCD1514 STM8 & STM32 TEST VEHICLES

Package	Assembly	Package	Device	Diffusion	Number
line	Line		(Partial RawLine	Process	of Lots
			Code)		
HD	LQFP7*7	48L	STM8L (5B*765)	F9GO1	1
LQFP			STM32 (5B*410)	TSMC 0.18µm	1
			STM32L (5B*427)	F9GO2S	1

RERMCD 1514 - STM8-STM32 LQFP7x7 Package Reliability Trials : (*) tests performed after preconditioning RELIABILITY TRIALS

Reliability Trial Test Conditions Pass Unit Lot qty Criteria per Lot Pre Conditioning: Moisture Bake (125°C / 24 hrs) 3 passes MSL1 308 1/ device Sensitivity Jedec Level 1 Soak (85°C / 85% RH / 168 hrs) Convection reflow: 3 passes (for MSL2 qual) PC with Jedec level 1 J-STD-020/ JESD22-A113 121°C, 100% RH, 2 Atm 96h 1/ device Autoclave 77 **JESD22 A102** or AC or Uhast(*) **UnBiased Highly Accelerated** 130°C, 85%RH, 2 atm Temperature and Humidity Stress **JESD22 A118** Thermal Cycling -50°C, +150°C 1000Cv 77 1/ device Or equivalent **TC(*) JESD22 A104** -65°C +150°C 500Cy (1000cy/2000cy as monitoring) 3 Wire Bond Pull- Mil Std883 3g min pull strengh 1/ device 500Cy WPT/WBS 1000Cy method 2011 (30 wires) After TC 2000Cy Wire Bond Shear .AECQ100-001 15g min bond shear Temperature 85°C. 85% RH. bias 1000h 77 1/ device Humidity Bias THB(*) JESD22 A101 High Temperature Storage Life 150°C- no bias 1000h 77 1/ device HTSL **JESD22 A103 Construction analysis** 1/ device including Solderability, **JESD 22B102** 15 Physical demensions JESDB100/B108 10 **ESD** Charge 3 1/ device 250V 250V ESD Device Model

ANSI/ESD STM5.3.1

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Public Products List

PCN Title : Capacity increase for LQFP 48 7x7 products listed below

PCN Reference : MMS/15/9484

PCN Created on : 30-Oct-2015

Subject : Public Products List

Dear Customer,

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

STM32F100CBT6B	STM32F302CBT6	STM32F102CBT6TR
STM8S207C8T6	STM32F051C8T6	STM8S207CBT6TR
STM32F101C8T6	STM8S208CBT6	STM8S208C8T6
STM32F072CBT6	STM32L151CCT6J	STM32F070C6T6
STM32F103CBT6	STM32L052C6T6	STM8S207C8T6TR
STM8S207C6T6	STM32F103CBT7TR	STM32L053C6T7
STM32F103CBT7	STM32F072C8T6TR	STM32F100C6T6BTR
STM32L073CZT6	STM32L053C8T6	STM32F101CBT6
STM32F030C8T6	STM32F038C6T6	STM32F103C8T6TR
STM32F103C8T6	STM32F100C8T6B	STM32F373CCT6
STM32F030C8T6TR	STM8S105C6T6	STM8S207C6T6TR
STM32F070CBT6	STM32F378CCT6	STM32F103C8T7
STM32F051C8T7TR	STM32F334C6T7	STM32F071CBT7
STM8S005C6T6TR	STM32F042C4T6	STM32L052C8T7
STM8S105C6T6TR	STM32L053C8T6D	STM32F072C8T6
STM32F031C4T6	STM32F031C6T6	STM32L051C6T6
STM32L031C6T7	STM32F303CBT6TR	STM32F072CBT7
STM32F301C8T6TR	STM32F102C8T6TR	STM8S207CBT3
STM32L053C8T7	STM8S005C6T6	STM32F103CBT6TR
STM32F373CBT6	STM32F101CBT6TR	STM8S007C8T6
STM32F100C6T6B	STM32F051C6T6TR	STM32F051C4T6
STM32L151C8T6A	STM8S208C6T6	STM32F302C6T6
STM32F030C6T6	STM32F030CCT6	STM8S105C4T6
STM32F100CBT6BTR	STM32F103C8T7TR	STM32F031C6T6TR
STM32F102CBT6	STM32F102C6T6ATR	STM32F101C6T6A
STM32F302C8T6	STM32F072CBT6TR	STM32F103C6T6A
STM32F102C4T6A	STM32F328C8T6	STM32F031C4T6TR
STM32F100C8T6BTR	STM32F070CBT6TR	STM32F031C6T7
STM32L063C8T6	STM32F051C8T6TR	STM32F102C8T6
STM32F038C6T7	STM8S105C4T3	STM8S208C6T6TR
STM8S207CBT6	STM8S208C8T6TR	STM8S207C6T3
STM32F103C4T6A	STM32F071CBT6TR	STM32L053C6T6
STM32F301C6T6	STM32L151CCT6TR	STM32L051C8T6TR
STM32L071CBT6	STM32F071CBT6	STM32F102C6T6A
STM32F091CCT7	STM32L151CCT6	STM32F301C8T6
STM32F051C6T7	STM32F334C8T6	STM32F334C4T6
STM32F334C8T7	STM32F303CBT7	STM32L152CCT6

Public Products List

STM32L083CZT6	STM32L152C6T6A	STM32F303CCT6TR
STM32L083CZ16	STM32L152C616A	STM32F303CCT6TR
STM32L051C8T6	STM32F091CBT6	STM8S207C8T3
STM32F091CCT6J	STM32F078CBT6	STM32F303CCT6
STM32L152CBT6A	STM32F100C4T6BTR	STM32F103C6T7A
STM32F334C6T6	STM32F302CCT6	STM32F373C8T6
STM32L152C8T6A	STM32L051C6T6TR	STM32F100C4T6B
STM32F302CBT7	STM32F303CBT6	STM32F303C8T6
STM32L051C8T7	STM32F100CBT7BTR	STM32F103C6T7ATR
STM32F100C6T7B	STM32L051C8T3	STM32F098CCT6
STM8S105C4T6TR	STM32F102C4T6ATR	STM8S208C6T3
STM32F051C6T6	STM32L053C8T6TR	STM32F051C8T7
STM32F358CCT6	STM32F042C6T6	STM32F100C8T7B
STM32L151CBT6A	STM8S105C6T3TR	STM32L052C8T6
STM32F100C8T7BTR	STM32L151CBT6D	STM32F100CBT7B
STM32F030C6T6TR	STM32L151C6T6A	STM32F101C6T6ATR
STM32F303C6T6	STM32F100C4T7B	STM32F091CCT6
STM32L083CZT6TR	STM32L052C8T6D	STM32F301C8T7
STM32F318C8T6	STM32F091CCT6TR	STM32F302C8T7
STM32F373C8T6TR		

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