


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	MDG/19/10233	
<b>1.3 Title of PCN</b>	Conversion of Back-end line at Amkor ATP (Philippines) in TSSOP20 package - non automotive products	
<b>1.4 Product Category</b>	TSSOP 20 package products listed- non automotive products	
<b>1.5 Issue date</b>	2019-01-23	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	MARCELI SMIALKOWSKI
<b>2.1.2 Phone</b>	+44 1628896277
<b>2.1.3 Email</b>	marceli.smialkowski@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>
Materials	Any change on substrate (part number, supplier, plant, design or composition of any layer...)	Amkor ATP (Philippines)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	Current line in Amkor: - Leadframe: Pre-Plated Frame (PPF) , High Density Leadframe (HDLF) - Molding compound : Sumitomo EME-G700K - Second level interconnect : e4	Converted line: - Leadframe : Tin Post-plated Frame, Extreme Density Leadframe (XDLF) - for STM8T products Leadframe pad size changed from 2.4x3.6mm to 3x4.2mm - Molding compound : Sumitomo EME-G700LS - Second level interconnect : e3 - Enhanced traceability in marking : 2 digits added  Bill Of Materials (BOM) is already qualified in TSSOP14 package.
<b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b>	Lead color and surface finish will change due to different leadframe finishing. Pin1 identifier might change in terms of form and positioning. Package darkness changes depending on molding.	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	Due to the success on the market of MCD microcontrollers, ST Microcontrollers Division must convert the line to maintain state of the art service level to our customers.
<b>5.2 Customer Benefit</b>	SERVICE CONTINUITY

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

<b>6.1 Description</b>	Second level interconnect changes from e4 to e3.
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2019-01-31
<b>7.2 Intended start of delivery</b>	2019-02-28
<b>7.3 Qualification sample available?</b>	Upon Request

<b>8. Qualification / Validation</b>			
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<b>8.1 Description</b>	10233 MDG-MCD-RER1712 - PCN10233- TSSOP20 HDLF to XDLF ATP1 - reliability plan.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2019-01-23

<b>9. Attachments (additional documentations)</b>			
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10233 Public product.pdf 10233 MDG-MCD-RER1712 - PCN10233- TSSOP20 HDLF to XDLF ATP1 - reliability plan.pdf 10233 PCN10233_Additional information.pdf			
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<b>10. Affected parts</b>		
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<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>
	STM32F030F4P6	

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## Public Products List

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**PCN Title :** Conversion of Back-end line at Amkor ATP (Philippines) in TSSOP20 package - non automotive products

**PCN Reference :** MDG/19/10233

**Subject :** Public Products List

Dear Customer,

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

STM32F070F6P6TR	STM32F030F4P6TR	STM32F031F6P6
STM8S003F3P6	STM8S903F3P6TR	STM32F031F4P7
STM8L101F2P3	STM32F031F6P7TR	STM32L031F6P6TR
STM8L051F3P6	STM8L151F3P6	STM8TL52F4P6TR
STM8S903F3P6	STM8S103F3P6	STM32L031F4P3
STM32F070F6P6	STM32F031F4P6TR	STM32F042F6P6
STM8S103F3P3	STM8L101F2P6	STM8S903F3P3
STM32F030F4P6	STM32F038F6P6	STM32F031F4P6
STM32F042F4P6TR	STM8L151F3P3	STM8S103F2P3TR
STM8L151F3P6TR	STM8S103F2P3	STM32L031F4P6
STM8S103F2P6TR	STM32L011F3P6TR	STM8L101F3P6TR
STM32F042F4P6	STM8L051F3P6TR	STM32F031F6P7
STM8S103F2P6	STM32F031F6P6TR	STM32L011F4P6TR
STM8L151F2P6TR	STM32L031F6P7	STM8L101F2P3TR
STM8S003F3P6TR	STM8L151F2P6	STM8S103F3P3TR
STM8L101F2P6TR	STM8SPLNB1P6	STM8L101F3P3
STM32F038F6P6TR	STM32L041F6P7	STM32L031F6P7TR
STM8TL52F4P6	STM8S103F3P6TR	STM32L011F3P6
STM32F042F6P7	STM32L011F4P6	STM32L010F4P6
STM8L101F3P6	STM32L031F6P6	STM8TL53F4P6



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