


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	MDG/21/12542	
<b>1.3 Title of PCN</b>	AMKOR ATP (Philippines) enhanced Die Attach - All listed product in UFBGA package	
<b>1.4 Product Category</b>	All products in UFBGA 5x5, UFBGA 7x7 or UFBGA 10x10 packages	
<b>1.5 Issue date</b>	2021-02-23	

**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>
Materials	New direct material part number (same supplier, different supplier or new supplier), Die Attach material	AMKOR ATP (Philippines)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	Die Attach Film (DAF) material: Henkel ATB-130U	Die Attach Film (DAF) material: Nitto EM760L2-P
<b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b>	no impact	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	improve Die Attach fillet height condition
<b>5.2 Customer Benefit</b>	QUALITY IMPROVEMENT

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

<b>6.1 Description</b>	Tracability ensured by ST internal tools
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2021-02-10
<b>7.2 Intended start of delivery</b>	2021-04-02
<b>7.3 Qualification sample available?</b>	Upon Request

**8. Qualification / Validation**

<b>8.1 Description</b>	12542 MDG-MCD-RER2020 V1.0-PCN12542-AMKOR ATP enhanced Die Attach UFBGA.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2021-02-23

**9. Attachments (additional documentations)**

**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
	STM32F072VBH6	
	STM32F091VCH6	
	STM32F207ICH6	
	STM32F207IEH6	
	STM32F207IGH6	
	STM32F207IGH6J	
	STM32F207IGH7	
	STM32F217IGH6	
	STM32F373V8H6	
	STM32F373VBH6	
	STM32F373VCH6	
	STM32F401VEH6	
	STM32F407IEH6	
	STM32F407IGH6	
	STM32F407IGH6TR	
	STM32F407IGH7	
	STM32F411VEH6	
	STM32F412VEH6	
	STM32F412VGH6	
	STM32F412ZGJ6	
	STM32F413VGH6	
	STM32F413VHH6	
	STM32F413ZGJ6	
	STM32F413ZHJ6	
	STM32F417IEH6	
	STM32F417IGH6	
	STM32F423ZHJ6	
	STM32F427AGH6	
	STM32F427AIH6	
	STM32F427IGH6	
	STM32F427IGH7	
	STM32F427IIH6	
	STM32F427IIH6TR	
	STM32F427IIH7	
	STM32F429AGH6	
	STM32F429AIH6	
	STM32F429IEH6	
	STM32F429IGH6	
	STM32F429IIH6	
	STM32F437IGH6	
	STM32F437IIH6	
	STM32F437IIH6TR	
	STM32F439IIH6	
	STM32F446ZCH6	
	STM32F446ZCJ6	

	STM32F446ZEH6	
	STM32F446ZEJ6	
	STM32F446ZEJ6TR	
	STM32F446ZEJ7	
	STM32F469AIH6	
	STM32F469IGH6	
	STM32F469IGH6TR	
	STM32F469IIH6	
	STM32F722IEK6	
	STM32F723IEK6	
	STM32F723ZEI6	
	STM32F730I8K6	
	STM32F732IEK6	
	STM32F745IEK6	
	STM32F745IGK6	
	STM32F746IEK6	
	STM32F746IGK6	
	STM32F756IGK6	
	STM32F765IGK6	
	STM32F765IIK6	
	STM32F767IGK6	
	STM32F767IIK6	
	STM32F777IIK6	
	STM32H743AI6	
	STM32H743IIK6	
	STM32H745IIK6	
	STM32H750IBK6	
	STM32H753AI6	
	STM32H753IIK6	
	STM32L072RZI6	
	STM32L073VZI6	
	STM32L151QDH6	
	STM32L151QEH6	
	STM32L151VBH6	
	STM32L151VBH6A	
	STM32L151VCH6	
	STM32L151VCH6TR	
	STM32L152VCH6	
	STM32L162VCH6	
	STM32L412RBI6	
	STM32L422RBI6	
	STM32L431RBI6	
	STM32L431RCI6	
	STM32L431VCI6	
	STM32L433RBI6	
	STM32L433RCI3	
	STM32L433RCI6	
	STM32L433VCI3	
	STM32L433VCI6	
	STM32L443RCI3	
	STM32L443RCI6	

	STM32L443VCI6	
	STM32L451RCI6	
	STM32L451REI6	
	STM32L451VCI6	
	STM32L451VEI6	
	STM32L452RCI6	
	STM32L452REI3	
	STM32L452REI6	
	STM32L452VCI6	
	STM32L452VEI6	
	STM32L462REI6	
	STM32L462VEI6	
	STM32L471QEI6	
	STM32L471QGI6	
	STM32L476QEI6	
	STM32L476QGI3	
	STM32L476QGI6	
	STM32L476QGI6TR	
	STM32L486QGI6	
	STM32L496AEI6	
	STM32L496AGI3	
	STM32L496AGI6	
	STM32L496AGI6P	
	STM32L496QEI6	
	STM32L496QGI3	
	STM32L496QGI6	
	STM32L496QGI6P	
	STM32L4A6AGI6	
	STM32L4A6AGI6P	
	STM32L4A6QGI6	
	STM32L4A6QGI6P	
	STM32L4R5AGI6	
	STM32L4R5QGI6	
	STM32L4R5QII6	
	STM32L4R9AGI6	
	STM32L4R9AII6	
	STM32L4R9ZGJ6	
	STM32L4R9ZIJ6	
	STM32L4S5QII6	
	STM32L4S9AII6	
	STM32L4S9ZIJ6	
	STM32L552QEI6	



## 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 :** AMKOR ATP (Philippines) enhanced Die Attach - All listed product in UFBGA package

**PCN Reference :** MDG/21/12542

**Subject :** Public Products List

Dear Customer,

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

STM32F469IIH6	STM32F413VHH3	STM32L4R9AI6
STM32F373VBH6	STM32F427IGH6TR	STM32L4S7AI6
STM32L072VBI6	STM32L4S5AI3	STM32L4S5AI3TR
STM32L422RBI6	STM32F437AIH6	STM32F407IGH6
STM32F207IFH6TR	STM32L471QEI7TR	STM32F412VGH6
STM32F446ZEJ6	STM32H755IIK6	STM32F412ZEJ3
STM32L4A6QGI6P	STM32L072RZI6DTR	STM32H757AI6
STM32F412VEH3TR	STM32F765IGK6	STM32F439IIH6TR
STM32L462REI6	STM32F427IGH7	STM32F427AIH6
STM32F777IIK6	STM32H755IIK3	STM32H745IIK3
STM32H742IIK6	STM32L451VEI6	STM32F410RBI6
STM32F732IEK6	STM32F479IIH6	STM32F091RCH6
STM32F051R8H7	STM32F469IGH6TR	STM32F429IEH6
STM32F427IIH6	STM32L496QGI6S	STM32F469AIH6
STM32H753IIK6	STM32L476QGI6TR	STM32G431RBI6
STM32L431RCI6	STM32F413ZHJ6	STM32L4S5AI6
STM32F429AGH6TR	STM32F446ZEH6	STM32F303VEH6
STM32F756IGK6	STM32L4S9AI6	STM32L452VEI6
STM32F103VBI6	STM32H743IIK6	STM32F723IEK6
STM32H7B0ABI6Q	STM32F446ZEJ6TR	STM32G081RBI6
STM32L431VCI6	STM32F746IGK7	STM32L552QEI6Q
STM32H747AI6	STM32L471ZEJ6	STM32F446ZCJ7
STM32L4R9ZGJ6	STM32L452VEI3	STM32L151VBH6D
STM32F058R8H7	STM32F427IGH6	STM32F091VCH6
STM32F413VHH6	STM32F429IIH6	STM32L073RZI6TR
STM32F417IGH6TR	STM32F098RCH6	STM32F429AGH6
STM32L073RZI6	STM32F723ZCI6	STM32G431R8I6
STM32F412VEH6TR	STM32F217IGH6	STM32F401VEH6
STM32L083VZI6	STM32F078VBH6	STM32F373VCH7
STM32F373V8H6	STM32F407IGH7	STM32F401VBH6
STM32L151VBH6A	STM32F058R8H6	STM32L496QEI6
STM32F051R8H6TR	STM32F407IEH6TR	STM32F479IIH7
STM32F746IGK6	STM32L4R5AI6P	STM32F407IGH6TR
STM32F207IGH6TR	STM32F071V8H6	STM32F413VGH6
STM32F767IGK6	STM32H745IIK6	STM32L4S5QII3P
STM32L4R5QII6P	STM32F058R8H6TR	STM32F401VCH7



## Public Products List

STM32F072RBH6TR	STM32F745IGK7	STM32F723ZEI6
STM32F745IEK6	STM32F411VEH6	STM32F765IHK6
STM32L151VBH6TR	STM32F427IIH6TR	STM32L4R5QII6
STM32L562QEI6Q	STM32F765IGK6TR	STM32F723ICK6
STM32F745IEK7	STM32F407IEH7	STM32F417IGH6
STM32F446ZCJ6	STM32F207IGH7	STM32F446ZCH7
STM32F429AIH6	STM32F207IEH6	STM32F733IEK6
STM32F378VCH6	STM32F091VCH7	STM32L072RZI6D
STM32F207ICH6	STM32L162QDH6TR	STM32L152V8H6A
STM32F071VBH6	STM32L072VZI6	STM32F407IEH6
STM32L162QDH6	STM32F072RBH6	STM32F446ZCH6
STM32F439IGH6	STM32G431R6I6	STM32L496AGI6
STM32L476QGI6	STM32F437IIH6	STM32L412RBI6P
STM32F078RBH7TR	STM32L496AGI3	STM32L151QDH6TR
STM32F437IGH6	STM32F413ZGJ6TR	STM32F302VDH6
STM32F412ZGJ6	STM32F373VCH6	STM32F401VCH6
STM32L486QGI6TR	STM32H743AGI6	STM32F423VHH6
STM32H7A3AII6Q	STM32L4R7AII6	STM32F469AGH6TR
STM32L152V8H6TR	STM32F427AIH6TR	STM32L452RCI6
STM32F303VDH6	STM32F439IIH6	STM32F469IGH6
STM32F207IEH6TR	STM32F407IGH6J	STM32F413ZGJ6
STM32F412ZEJ6	STM32L152VCH6	STM32F412ZGJ7
STM32F469AGH6	STM32H743AII6TR	STM32F446ZEH7
STM32H743IHK6TR	STM32L072RZI6TR	STM32F051R8H6
STM32F479IGH6	STM32L471ZGJ6	STM32F417IGH6W
STM32F437AIH6TR	STM32L4R5QGI6	STM32L431VCI7TR
STM32F051R8H7TR	STM32L072V8I6	STM32L073VZI6
STM32L4S9ZIJ6TR	STM32L4R5QGI6S	STM32F479AIH6
STM32L073VZI6TR	STM32L4R5QGI6TR	STM32F401VEH6TR
STM32L4R9AGI6	STM32F479AGH6	STM32F401VDH6
STM32F401VBH3	STM32L433VCI3	STM32L476QGI3
STM32L486QGI6	STM32F412VEH6	STM32L4R5AII6
STM32L562QEI6TR	STM32F469AEH7	STM32L471QGI6
STM32F765IHK7	STM32L431RBI6TR	STM32L462VEI6
STM32L476QGI6P	STM32F207IGH6J	STM32F439IIH7
STM32F446ZEJ7TR	STM32F078RBH6TR	STM32F410RBI3
STM32F303VEH7TR	STM32F439AIH6	STM32F072V8H6
STM32F745IGK6TR	STM32F745IEK7TR	STM32F303VEH7
STM32L072RZI6	STM32H742AGI6	STM32L496QEI6TR
STM32F072VBH6TR	STM32L433RCI3	STM32F469AEH6
STM32L471ZEJ6TR	STM32L412R8I6	STM32L496AEI6
STM32H742AGI6TR	STM32F207IFH6	STM32L151QEH6
STM32H747AGI6	STM32F429IGH6	STM32F217IEH6
STM32F437IIH6TR	STM32H743AII6	STM32L151QCH6
STM32F072VBH6	STM32F767IHK6	STM32L151QDH6
STM32L451REI6	STM32L4R9ZIJ6	STM32L476QEI6TR
STM32L552QCI6Q	STM32F427IIH7	STM32L443RCI6
STM32L471QEI7	STM32L4A6AGI6P	STM32F469IEH6
STM32L152VCH6D	STM32H750IBK6	STM32H742AII6
STM32L162VCH6TR	STM32F302VEH6	STM32F429IIH6TR



## Public Products List

STM32F745IGK6	STM32H753AII6	STM32F072VBH7
STM32L452REI6	STM32L152V8H6	STM32L152VBH6
STM32L496QGI6P	STM32L471QGI6TR	STM32F446ZEH7TR
STM32L072RBI6TR	STM32F411VEH6TR	STM32F098VCH6
STM32L4A6AGI6	STM32L152QEH6	STM32F777IIK7
STM32F469AEH7TR	STM32L4A6QGI6	STM32L451VCI6
STM32F417IEH6	STM32L162QDH6DTR	STM32L4R5AGI6
STM32F401VEH7	STM32F730I8K6	STM32L433VCI6TR
STM32H7A3IIK6	STM32L431RBI6	STM32L162QCH6
STM32F091RCH6TR	STM32F722IEK6	STM32F479IIH7TR
STM32L4S9ZIJ6	STM32F722ICK6	STM32H7A3IIK6Q
STM32H7B3IIK6	STM32G441RBI6	STM32H745IGK6
STM32H742IGK6	STM32L433RCI6TR	STM32L433RBI6
STM32G071RBI6	STM32L4S5QII6	STM32L431RBI3
STM32L443VCI6	STM32L151VBH6	STM32F733ZEI6
STM32L151VCH6TR	STM32F423ZHJ6	STM32L443RCI3
STM32F413ZHJ6TR	STM32L072RBI6	STM32F446ZEH6TR
STM32L452REI3	STM32H7B3AII6Q	STM32F427AGH6
STM32F207IGH6	STM32H7B3IIK6Q	STM32L476ZGJ6
STM32L552QEI6	STM32L152VBH6A	STM32L433RCI6
STM32L471QEI6TR	STM32L162VCH6	STM32L476QEI6
STM32L562QEI6	STM32H7A3AGI6Q	STM32F078VBH6TR
STM32H7B0IBK6Q	STM32F303VEH6TR	STM32F412ZGJ6TR
STM32F446ZEJ7	STM32L496AGI6P	STM32F091RCH7
STM32L151V8H6	STM32L152QCH6	STM32L462VEI6TR
STM32F058R8H7TR	STM32L451RCI6	STM32L471QEI6
STM32L496QGI3	STM32L452VEI6TR	STM32F746IEK6
STM32L443RCI6TR	STM32L433VCI6	STM32L151V8H6A
STM32L4R5QII6TR	STM32L496QGI6	STM32L452VCI6
STM32F098VCH6TR	STM32L412RBI6	STM32L496QGI6STR
STM32L431RCI6TR	STM32L151VCH6	STM32L152QDH6
STM32F730I8K6TR		



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