

PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MDG/19/11335	
1.3 Title of PCI	AMKOR ATT (Taiwan) final test line moving from site T3 to site T6	
1.4 Product Category	STM32F446MEY6TR , STM32L476JGY6TR , STM32L476MGY6TR	
1.5 Issue date	2019-06-18	

2. PCI 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	Ricardo Antonio DE SA EARP
2.1.2 Marketing Manager	Veronique BARLATIER
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Testing (SOP 2617)	Site T3 & T6 both located in Taiwan.

4. Description of change

	Old	New
4.1 Description	AMKOR ATT (Taiwan) final test is located in site T3	AMKOR ATT (Taiwan) final test will be located in site T6
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Change	

5. Reason / motivation for change

5.1 Motivation	Consolidation of AMKOR ATT (Taiwan) final test area in T6 for WLCSP packages.
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	Traceability of the change is ensured by ST internal tools.
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7. Timing / schedule

7.1 Date of qualification results	2019-06-13
7.2 Intended start of delivery	2019-07-10
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	11335 MDG-MCD-RER1910 PCN11330-ST MUAR HD line capacity extension STM8 & STM32 LQFP 10x10 64L.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2019-06-18

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
	STM32F446MEY6TR	
	STM32L476JGY6TR	
	STM32L476MGY6TR	

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CER1901 for PCI11335 AMKOR ATT (Taiwan) final test line moving from site T3 to site T6

Change Evaluation Plan

June 11th, 2019

MDG - MCD Operations department

CER1901 AMKOR ATT (Taiwan) final test line moving from site T3 to site T6 – Change Evaluation Vehicles

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- New test site qualification is needed to meet growing demand. Current test site is AMKOR T3. Project is to qualify below devices in new site AMKOR T6 where many other STM32 WLCSP are tested in high production volume since 2018.
- Test vehicles for the new site qualification are selected by Change Review Board based on key parameters such as front end technology, package technology and volumes allowing to qualify the entire product family.

Macro Pack	Test line	Package	Package Code	Die Code	Device Code (Partial RawLine Code)	CP Code	Diffusion Plants / Techno	Qualification status
WLCSP	Amkor T3	WLCSP 81L	A05Z	415	AQ*415	STM32L476MGY6TR (1)	TSMC / 90n eFlash	Qualification On-going
		WLCSP 72L	A02R	415	3F*415	STM32L476JGY6TR	TSMC / 90n eFlash	
		WLCSP 81L	A02T	421	45*421	STM32F446MEY6TR (1)	ST Crolles 300 / CMOS M10	
	Amkor T6	WLCSP 25L	A06J	460	C4*460	STM32G071E8Y6TR	TSMC / 90n eFlash	Qualified in volume production
		WLCSP 144L	A085	470	DF*470	STM32L4R9ZIY6TR	TSMC / 90n eFlash	
		WLCSP 49L	A0ZV	431	0U*431	STM32F411CEY6TR	ST Crolles 300 / CMOS M10	

(1) Selected test vehicles for new site qualification

CER1901 AMKOR ATT (Taiwan) final test line moving from site T3 to site T6 – Change Evaluation Trials on test vehicles

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	Trial & Standard	Test Conditions	Pass Criteria	Units per Lot	Lot qty
BYC	Bin Yield correlation 080-4822 Rev C	Production ATE : Advantest T2000 Room temp	100% or with deviation explained	3Ku	2
BMC	Bin Movement correlation 080-4822 Rev C	Production ATE : Advantest T2000 Room temp	100% or with deviation explained	1Ku	1
DLOG	Datalog correlation of critical measures 080-4822 Rev C	Production ATE : Advantest T2000 Room temp 4 critical parameters	Mean variation < 2 Std Dev	3 Units	1
GR&R	Gage R&R 080-4822 Rev C	ST Spec #8088100	0 ≤ R&R ≤ 10% : good 10 % < R&R ≤ 20% : acceptable	NA	NA

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Public Products List

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PCI Title : AMKOR ATT (Taiwan) final test line moving from site T3 to site T6

PCI Reference : MDG/19/11335

Subject : Public Products List

Dear Customer,

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

STM32L476MGY6TR	STM32L476JGY6TR	STM32F446MEY6TR
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