1. PCN basic data		
1.1 Company	STMicroelectronics International N.V	
1.2 PCN No.	MDG/17/10029	
1.3 Title of PCN	PCN9942 replacement - STM32F7x 2MB - die minor revision & Optimized substrate layout on TFBGA package only	
1.4 Product Category	Change 1 : STM32F7x 2MB family products, all products listed in this PCN. Change 2 : STM32F7x 2MB family products in TFBGA package, so only STM32F7xNxH commercial products listed in this PCN.	
1.5 Issue date	2017-04-03	

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	Veronique BARLATIER	
2.1.3 Quality Manager	Pascal NARCHE	

3. Change		
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Die redesign		Change 1 : diffusion plant, Crolles 300 (France) Change 2 : assembly plant, Amkor ATP3 (Philippines)

4. Description of change		
	Old	New
4.1 Description	Change 1 : Die with revision A This change impacts also RMII electrical timing parameters. There are described in : - Datasheet Revision 3 for STM32F777x STM32F778Ax and STM32F779xx products, table 97 - DocID028294 - Datasheet Revision 3 for STM32F765xx STM32F767xx STM32F768Ax and STM32F769xx products, table 97 - DocID028294	Change 1: Die with revision Z. This change impacts also RMII electrical timing parameters. The update remains within the limits of RMII International Specification rev 1.2. It is described in : - Datasheet Revision 4 for STM32F777x STM32F778Ax and STM32F779xx products, table 97 - DocID028294 - Datasheet Revision 4 for STM32F765xx STM32F767xx STM32F768Ax and STM32F769xx products, table 97 - DocID028294
	Change 2: LSE high driving and low driving capability is not usable for TFBGA package under certain conditions.	Change 2: New substrate layout on TFBGA package products, to fix LSE high driving and low driving limitations.
		Both changes are implemented at the same time and cannot be accepted independently.
	Both limitations are described in Errata sheet Revision 3 for STM32F76xxx STM32F77xxx products - DocID028806	Both changes are described in Errata sheet Revision 4 for STM32F76xxx STM32F77xxx products - DocID028806.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Change 1 & 2 : Function : improvements are indicated in Errata sheet and RMII update is indicated in datasheets	

5. Reason / motivation for change		
5.1 Motivation To increase the robustness and improve performances, the quality and the functionality of products. We are introducing a new die revision which optimize the substrate design for the TFBGA package.		
5.2 Customer Benefit	QUALITY IMPROVEMENT	

6. Marking of parts / traceability of change 6.1 Description The die revision changes from "A" to "Z". It is marked on packages of the part.

7. Timing / schedule		
7.1 Date of qualification results	2016-11-15	
7.2 Intended start of delivery	2017-02-15	
7.3 Qualification sample available?	Upon Request	

8. Qualification / Validation			
8.1 Description 10029 PCN10029_MMS-MCD RERMCD1501 - STM32F7x- Die 451XXXZ - Reliability Evaluation Report.pdf			
8.2 Qualification report and qualification results		lssue Date	2017-04-03

9. Attachments (additional documentations)

10029 Public product.pdf 10029 PCN10029_Additional information.pdf 10029 PCN10029_MMS-MCD RERMCD1501 - STM32F7x- Die 451XXXZ - Reliability Evaluation Report.pdf

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		
	STM32F765BGT6			
	STM32F765BIT6			
	STM32F765IGK6			
	STM32F765IGT6			
	STM32F765IIK6			
	STM32F765IIT6			
	STM32F765NGH6			
	STM32F765NIH6			
	STM32F765VGT6			
	STM32F765VIT6			
	STM32F765ZGT6			
	STM32F765ZIT6			
	STM32F767BGT6			
	STM32F767BIT6			
	STM32F767IGK6			
	STM32F767IGT6			
	STM32F767IIK6			
	STM32F767IIT6			
	STM32F767NGH6			
	STM32F767NIH6			
	STM32F767VGT6			
	STM32F767VIT6			
	STM32F767ZGT6			
	STM32F767ZIT6			
	STM32F769BGT6			
	STM32F769BIT6			
	STM32F769IGT6			
	STM32F769IIT6			
	STM32F769NGH6			
	STM32F769NIH6			
	STM32F777BIT6			

STM32F777IIK6	
STM32F777IIT6	
STM32F777NIH6	
STM32F777VIT6	
STM32F777ZIT6	
STM32F779BIT6	
STM32F779IIT6	
STM32F779NIH6	



Public Products List

Publict 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 : PCN9942 replacement - STM32F7x 2MB - die minor revision & Optimized substrate layout on TFBGA package only PCN Reference : MDG/17/10029

Subject : Public Products List

Dear Customer,

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

STM32F779NIH6	STM32F767NIH6	STM32F769AIY6TR
STM32F769IIT6	STM32F767IIT6	STM32F767VIT6
STM32F767IIK6	STM32F769NIH6	STM32F767ZIT6
STM32F769BIT6	STM32F767BIT6	STM32F777NIH6

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