



PRODUCT/PROCESS CHANGE NOTIFICATION

PCN MMS-MIC/13/7948

Dated 23 Jul 2013

STM32L15xxCx and STM32L16xxCx products improvement

Table 1. Change Implementation Schedule

Forecasted implementation date for change	22-Oct-2013
Forecasted availability date of samples for customer	03-Sep-2013
Forecasted date for STMicroelectronics change Qualification Plan results availability	22-Sep-2013
Estimated date of changed product first shipment	22-Oct-2013

Table 2. Change Identification

Product Identification (Product Family/Commercial Product)	STM32L15xxCx and STM32L16xxCx products
Type of change	Product design change
Reason for change	Robustness improvement
Description of the change	Last metal interconnection layers are changed. Limitations faced on the previous revision A and listed in the errata sheet (DM00034952) are corrected in this new revision (Enhanced ESD performance, Enhanced ADC linearity conversion, Fully functional power consumption range3).
Change Product Identification	see indicated below
Manufacturing Location(s)	

DOCUMENT APPROVAL

Name	Function
Colonna, Daniel	Marketing Manager
Buffa, Michel	Product Manager
Narche, Pascal	Q.A. Manager



PRODUCT/PROCESS CHANGE NOTIFICATION

STM32L15xxCx and STM32L16xxCx products improvement

MMS - Microcontrollers Division (MCD)

Dear Customer,

In order to align the performances of STM32L15xxCx and STM32L162xxCx products with the target specification and to provide a better service to our customers, ST MCD division is announcing a new die revision on those products.

What is the change?

Last metal interconnection layers are changed.

Limitations faced on the previous revision A and listed in the errata sheet (DM00034952) are corrected with this new revision:

- Enhanced ESD performance,
- Enhanced ADC linearity conversion,
- Fully functional power consumption range3.

Why ?

The purpose of this change is to increase the robustness of the STM32L15xxCx and STM32L162xxCx products.

When ?

The production on the new platform will start **Week 43 2013**.

How 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 the qualification plan.

How can the change be seen?

Traceability of the change is ensured by ST internal tools.

The new die revision letter is changed from "A" to "Y". You can find this marking on the package.

We remain available to discuss any concern that you may have regarding this Product Change Notification.

With our sincere regards.

Michel Buffa

Microcontroller Division General Manager



STM32L1xx – SCORPIO2 256k – Rev. Y

Reliability plan

July, 10th 2013

MMS MCD Quality & Reliability Department

- Context:

- In order to align the performances of STM32L15xxCx and STM32L162xxCx products with the target specification and to provide a better service to our customers, ST MCD division is announcing a new die revision on those products
- Last metal interconnection layers are changed. Therefore, limitations faced on the previous revision A and listed in the errata sheet (DM00034952) will be corrected:
 - Enhanced ESD performance,
 - Enhanced ADC linearity conversion,
 - Fully functional range3.

Reliability plan on new die revision Y:

TRIAL	Test	Method	Conditions	Package	Sample x Lot
DIE	LU	0018695 JESD78	105°C	LQFP100	6 x 1
	ESD HBM	0060102 JESD22-A114	25°C 2kV (class 2)	LQFP100	3 x 1
	HTOL 168h	MIL-STD-883 Method 1005 JESD22-A108	125°C	LQFP100	77 x 1
PACKAGE	ESD CDM	0060102 (ANSI/ESD STM5.3.1)	25°C 500V (class 2)	LQFP100 LQFP64 LQFP48 UFQFPN48 UFBGA100 WLCSP63	3 x 1



Public Products List

PCN Title : STM32L15xxCx and STM32L16xxCx products improvement

PCN Reference : MMS-MIC/13/7948

PCN Created on : 17-JUL-2013

Subject : Public Products List

Dear Customer,

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

ST COMMERCIAL PRODUCT

STM32L151CCT6

STM32L151UCY6TR

STM32L152RCT6

STM32L152VCH6D

STM32L151CCU6

STM32L152CCT6

STM32L152RCT6D

STM32L152VCT6

STM32L151RCT6

STM32L152CCU6

STM32L152VCH6

STM32L152VCT6D

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