



# PRODUCT INFORMATION LETTER

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PIL MMS-MIC/12/7299

Dated 20 Jul 2012

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**STM32F205x, STM32F215x, STM32F405x, STM32F415x**  
**additional USB peripheral**

Sales Type/product family label	Product specification improvement
Type of change	Product electrical spec. change
Reason for change	additional USB peripheral
Description	Starting from rev "Y" on STM32F205x and STM32F215x devices and rev "Z" on STM32F405x, STM32F415x devices, the USB 2.0 full-speed device/host/OTG controller with on-chip PHY peripheral, already present on the chip, is now enabled for our customers. Therefore in terms of USB connectivity the above devices become similar to STM32F207x, STM32F217x, STM32F407x and STM32F417x respectively.
Forecasted date of implementation	13-Aug-2012
Forecasted date of samples for customer	13-Jul-2012
Forecasted date for <b>STMicroelectronics</b> change Qualification Plan results availability	13-Jul-2012
Involved ST facilities	ST Rousset 8"

## DOCUMENT APPROVAL

Name	Function
Colonna, Daniel	Marketing Manager
Bouzereau, Renaud	Process Owner
Narche, Pascal	Q.A. Manager



## PRODUCT INFORMATION LETTER

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### **STM32F205x, STM32F215x, STM32F405x, STM32F415x additional USB peripheral**

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#### **MMS - Microcontrollers Division (MCD)**

Dear Customer,

We wish to inform you about an improvement related to the USB 2.0 full-speed device/host/OTG controller of the STM32F205x, STM32F215x, STM32F405x and STM32F415x devices.

#### **What is the change?**

Starting from rev “Y” on STM32F205x and STM32F215x devices and rev “Z” on STM32F405x, STM32F415x devices, the USB 2.0 full-speed device/host/OTG controller with on-chip PHY peripheral, already present on the chip, is now enabled for our customers. Therefore in terms of USB connectivity the above devices become similar to STM32F207x, STM32F217x, STM32F407x and STM32F417x respectively.

#### **Why?**

By offering the USB 2.0 full-speed device/host/OTG controller with on-chip PHY peripheral, 2 USB controllers are now available on the products, enhancing the connectivity on specific applications areas. Furthermore, In-situ device flash programming using embedded USB DFU boot-loader is now available in addition to others protocols such as UART and CAN.

#### **When?**

The additional USB peripheral is available starting from rev “Y” on STM32F205x and STM32F215x devices and rev “Z” on STM32F405x, STM32F415x devices.

#### **How will the change be qualified?**

This change is already qualified using the standard STMicroelectronics Corporate Procedures for Quality and Reliability, in full compliancy with the JESD-47 international standard. You can find below qualification reports.

#### **What is the impact of the change?**

2 USB controllers are available enhancing the connectivity on rev “Y” on STM32F205x and STM32F215x devices and rev “Z” on STM32F405x, STM32F415x devices and next revisions if available.

In-situ device flash programming using embedded USB DFU boot-loader is also available in addition to others protocols such as UART and CAN.

**How can the change be seen?**

- The revision letter, marked on packages, is indicated as follows :
  - rev "Y" for STM32F205x and STM32F215x devices
  - rev "Z" for STM32F405x and STM32F415x devices
- 4 Datasheets of these devices will be updated in May 2012:
  - Doc ID 15818 **Rev 9** (*STM32F205x and STM32F207x*)
  - Doc ID 17050 **Rev 7** (*STM32F215x and STM32F217x*)
  - Doc ID 022152 **Rev 3** (*STM32F405x and STM32F407x*)
  - Doc ID 022063 **Rev 3** (*STM32F415x and STM32F417x*)

We remain available for any complementary information you may need concerning this change.

With our sincere regards.

Michel Buffa  
Microcontroller Division General Manager

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