



**STM32F101xx and STM32F103xx medium-density devices:
upgrading your toolchain to V5.20 of IAR EWARM**

Introduction

The purpose of this technical note is to provide information on the upgrade to V5.20 of the IAR EWARM toolchain when using STM32F101xx and STM32F103xx medium-density devices.

For the complete documentation about EWARM V5.20, please refer to the IAR website.

IAR EWARM V5.20

In July 2008, IAR released a new revision of the Embedded Workbench for ARM (EWARM): V5.20. The previous version was V5.11.

While running the tests with this new toolchain revision, STMicroelectronics and IAR found some incompatibility with revisions B and Z of the STM32F101xx and STM32F103xx medium-density devices.

ST recommends to use the latest revision of the STM32F101xx and STM32F103xx medium-density, that is revision Y.

Free samples of the revision Y of the STM32F101xx and STM32F103xx medium-density chips are available from the STM32 page on the ST website.

To get free samples, go to <http://www.st.com/mcu/inchtml-pages-stm32.html>, then click on the desired device on the product portfolio view. The page will direct you to the product page.

For instance, if you click on STM32F103RB, you will be redirected to <http://www.st.com/mcu/devicedocs-STM32F103RB-110.html> where you can find samples by clicking on the **Samples** button.

The free sampling process is explained at:
<http://www.st.com/stonline/domains/buy/samples/index.htm>.

If you are using an IAR starter kit, an ST evaluation board or an ST motor control kit with revisions B and Z of the STM32F101xx and STM32F103xx medium-density devices and you wish to upgrade to revision Y, ST offers a free replacement with the latest IAR starter kit, ST evaluation board and ST motor control kit. Please contact your nearest ST sales office or distributor.

Appendix A Questions and answers: IAR EWARM V5.20 and STM32F101xx/STM32F103xx medium-density devices

Q1: How many revisions of the medium-density devices are there?

A1: Three revisions have been delivered to customers: Rev. B, Rev. Z and Rev. Y in chronological order (Rev B -> Rev Z -> Rev Y).

Q2: Which revisions have compatibility issues with IAR EWARM V5.20?

A2: The compatibility issue is with Rev. B and Rev. Z of medium-density devices.

Q3: How can I tell which revision I am using?

A3: The revision letter is on the package. Its location is explained in the product errata sheet.

Q4: Is there any problem with my application developed with the previous version of IAR and previous versions of STM32F101xx/STM32F103xx medium-density devices?

A4: No, systems already developed, validated and delivered to the field with previous silicon revisions are not affected.

Q5: Can I still use IAR EWARM V5.20 with Rev. Z or Rev. B of an STM32F101xx/STM32F103xx medium-density device if everything works fine?

A5: No, we advise to use only Rev Y with IAR EWARM V5.20.

Q6: What are the STM32F101xx/STM32F103xx medium-density parts currently available?

A6: Today, ST produces only Rev. Y devices, which correspond to the latest silicon revision. Some distributors may still have stocks of previous revisions, but they are smoothly being replaced by Rev. Y devices.

Q7: How am I sure to get only Rev. Y?

A7: The e-sampling process is explained at the beginning of the present document (TN0067).

Revision history

Table 1. Document revision history

Date	Revision	Changes
15-Jul-2008	1	Initial release.
02-Oct-2008	2	Free replacement also applies to the ST motor control kit. Appendix A: Questions and answers: IAR EWARM V5.20 and STM32F101xx/STM32F103xx medium-density devices added.

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2008 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com