imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





STM3210G-SK/KEI

Keil[™] starter kit for STM32F100/101/102/103 lines (with STM32F103ZG MCU)

Data brief

Features

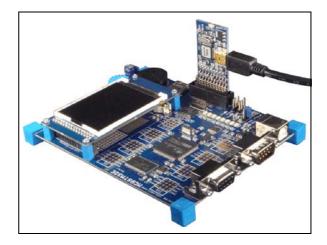
- The Keil MDK-Lite development tools:
 - µVision[®]4 IDE/Debugger for application programming and debugging
 - ARM C/C++ compiler
 - RTX real-time kernel, a multi-tasking operating system for embedded applications
 - MDK-Lite supports applications with up to 32 KB code-size
- ULINK-ME in-circuit debugger/programmer with USB interface to host PC and 20-pin JTAG or 10-pin CoreSight debug interface
- Full-featured Keil evaluation board with a 72 MHz STM32F103ZG MCU

Description

The Keil starter kit is a complete, cost-effective solution for starting application development and evaluating the STMicroelectronics STM32F100/101/102/103 ARM Cortex[™]-M3 processor-based microcontrollers.

The STM3210G-SK/KEI starter kit provides all the hardware and software you need to start developing applications for the STM32 ARM corebased families of microcontrollers. It comes complete with a full-featured evaluation board (including USB device, CAN, USARTs, Audio, MicroSD Card interface and QVGA LCD), Keil's MDK-ARM Lite Edition (32 KB) development tools, and the ULINK-ME[™] (USB/JTAG) adapter.

Keil starter kits are available for a full range of ST ARM core-based microcontrollers.



DocID025267 Rev 1

1/4

For further information contact your local STMicroelectronics sales office.

Starter kit architecture

Keil development software is a suite of software development tools for creating and debugging microcontroller applications that includes:

- µVision[®]4 integrated development environment, which integrates the ARM RealView Compilation Tools and Keil's debugging software so that users can quickly and easily develop and debug their applications while they run on a target microcontroller.
- **ARM RealView Compilation Tools (RVCT)** 32 KB code-size limited version of the optimizing C/C++ compiler for ARM[™] core-based microcontrollers.
- ULINK-ME[™] USB/JTAG in-circuit debugger / programmer, which integrates fully with µVision4, allowing users to download the application to the target and debug it while it runs on the ST ARM core-based microcontroller on the evaluation board.
- Keil[™] evaluation board, an application board that provides a full range of features to help users evaluate and start developing applications for the included STM32F103ZGTx microcontroller. The Keil MCBSTM32EXL evaluation board includes the following key features:
 - 1-Mbyte external RAM, FSMC
 - 8-Mbyte external Flash, SPI
 - Micro SD/MMC card connector
 - 20-pin JTAG connector
 - 20-pin trace tool connector
 - Power supply from USB
 - USART connector
 - SPI
 - I²C
 - CAN connector
 - USB connector
 - 8 user LEDs
 - QVGA LCD display
 - Potentiometer connected to ADC
 - 4 user and wake-up push buttons
 - Reset button
 - Wrap area
 - Joystick

Ordering information

Keil starter kits can be ordered from Keil or from your nearest ST distributor or sales office for STM32F100/101/102/103 lines (ST order code: STM3210G-SK/KEI).

For more information and complete documentation, please refer to the Keil web site or the STMicroelectronics microcontroller support site on www.st.com.



Revision history

Date	Revision	Changes
27-Sep-2013	1	Initial release.

Table 1. Document revision history



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.

ST PRODUCTS ARE NOT DESIGNED OR AUTHORIZED FOR USE IN: (A) SAFETY CRITICAL APPLICATIONS SUCH AS LIFE SUPPORTING, ACTIVE IMPLANTED DEVICES OR SYSTEMS WITH PRODUCT FUNCTIONAL SAFETY REQUIREMENTS; (B) AERONAUTIC APPLICATIONS; (C) AUTOMOTIVE APPLICATIONS OR ENVIRONMENTS, AND/OR (D) AEROSPACE APPLICATIONS OR ENVIRONMENTS. WHERE ST PRODUCTS ARE NOT DESIGNED FOR SUCH USE, THE PURCHASER SHALL USE PRODUCTS AT PURCHASER'S SOLE RISK, EVEN IF ST HAS BEEN INFORMED IN WRITING OF SUCH USAGE, UNLESS A PRODUCT IS EXPRESSLY DESIGNATED BY ST AS BEING INTENDED FOR "AUTOMOTIVE, AUTOMOTIVE SAFETY OR MEDICAL" INDUSTRY DOMAINS ACCORDING TO ST PRODUCT DESIGN SPECIFICATIONS. PRODUCTS FORMALLY ESCC, QML OR JAN QUALIFIED ARE DEEMED SUITABLE FOR USE IN AEROSPACE BY THE CORRESPONDING GOVERNMENTAL AGENCY.

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.

© 2013 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 - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com

DocID025267 Rev 1

