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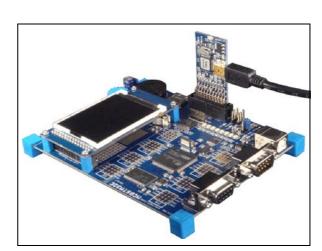
STM3210E-SK/KEI

Keil™ starter kit for STM32F100/101/102/103 lines (with STM32F103ZE 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 STM32F103ZE 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 STM3210E-SK/KEIL 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.

Starter kit architecture STM3210E-SK/KEI

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 STM32F103ZETx microcontroller. The Keil MCBSTM32E 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: STM3210E-SK/KEIL is replaced by STM3210G-SK/KEI).

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



STM3210E-SK/KEI Revision history

Revision history

Table 1. Document revision history

Date	Revision	Changes
15-Mar-2011	1	Initial release.
26-Apr-2011	2	Added Table 1: Device summary.
11-May-2012	3	Modified Features and Description for clarification.
30-Sep-2013	4	Updated the title from "Keil™ starter kit for STM32F1 series Performance and Access Line microcontrollers (STM32F103ZE MCU)" to "Keil™ starter kit for STM32F100/101/102/103 lines (with STM32F103ZE MCU)". Added "F100" to the Description. Removed Table 1 Device Summary. Updated the Ordering information.

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