EM6819 Software

installation notes

1. Introduction

This document will guide you through the installation of the **EM6819 database** and the **Raisonance tools for C816** (Integrated Development Environment Ride for C816 MCU and EM6819 Low Power 8-bit Microcontroller).

2. Install EM6819 documentation and support database

This installation will provide you an easy way to find in few clicks all technical documentation, user manuals, application notes, software examples, C macros etc ... that you may used during your EM6819 firmware development

2.1 Downloading the software

Download EM6819 documentation and support database from EM FTP:
f**tp://emm-ftpmcuuser:4em2see@194.209.66.206/kit6819/SetupDatabaseEM6819.exe**
(Note: The database can be updated frequently, please check for updates)

2.2 Installing the software

Run the setup file **SetupDatabaseEM6819.exe** and follow the steps to complete the database installation.

All the available resources can be easily selected in the html page provided along the Program shortcut "Database for EM6819 Microcontroller".

RAISONANCE

EM MICROELECTRONIC

EM6819 Documentation and Software database.
September 29, 2014

X.X update / new

EM6819 SPECIFICATION

DELIVERABLE	DOCUMENT NAME	FILE - SOURCE - CODE	REV.
EM6819 Datasheet Datasheet of EM6819 Microcontroller	EM6819 datasheet	EM6819_DS.pdf	9.0
EM6819 –B300 Datasheet Datasheet of EM6819 –B300 Microcontroller	EM6819 B300 datasheet	6819-DS-02.pdf	3.0
EM6819 Programming Specification Programming algorithm	EM6819 Programming Specification	EM6819_ProgSpec.pdf	1.20
CoolRISC Manual 8-bit CoolRISC Core Manual (architecture, instruction set, ...)	CoolRISC Manual	cr816.pdf	1.1

TOOLS DEVELOPMENT

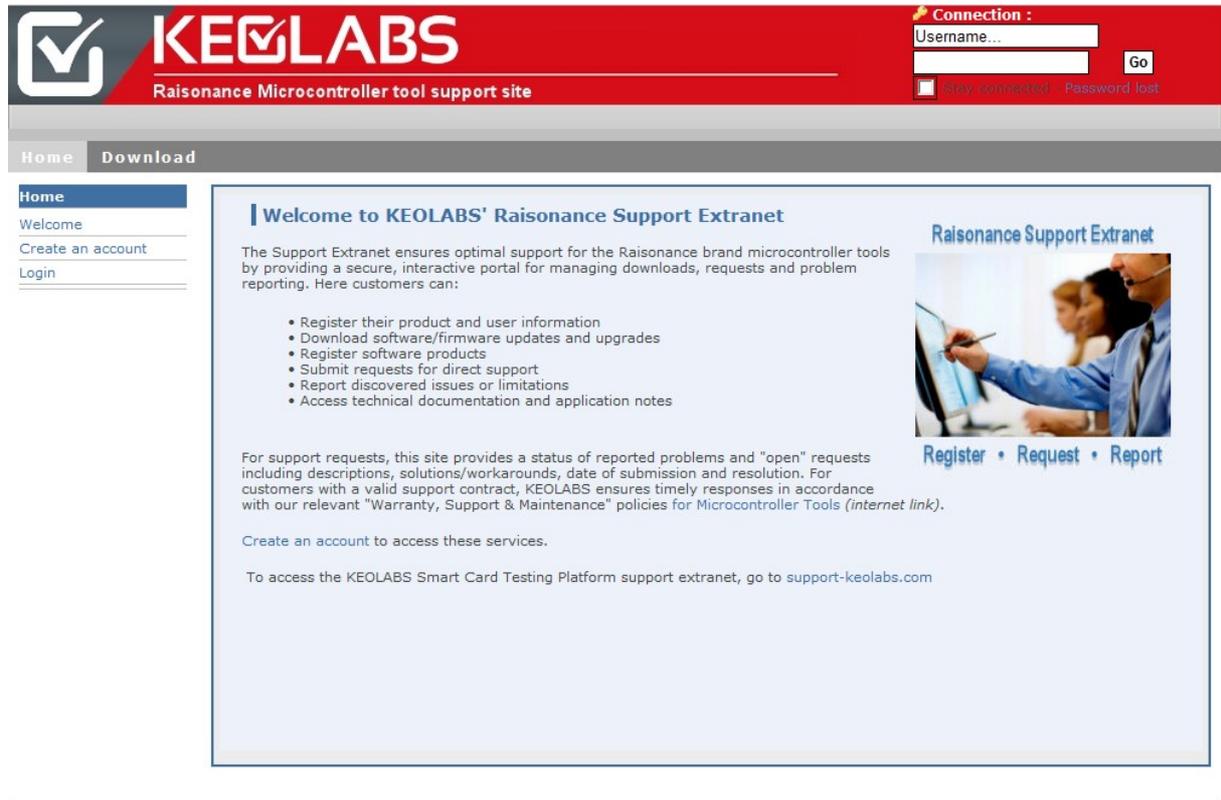| DELIVERABLE	DOCUMENT NAME	FILE - SOURCE - CODE	REV.
Assembler GNU manual Assembler for CoolRISC C816 user manual	AS	as. PDF	1.0
C-Compiler GNU manual C-compiler for CoolRISC C816 user manual	GCC	gcc.pdf	1.0
Linker GNU manual Linker for CoolRISC C816 user manual	LD	ld.pdf	1.0
Getting started C816 Getting started with Raisonance CoolRISC C816 tools	Getting started C816	Gettingstartedc816_ride7.pdf	11 May 2012
REva user Manual	REva User manual	REva_User_Guide_MB.pdf	3.0
REva part datasheet	REva part datasheet	accelerometer_3D_10807.pdf buzzer_ef532_ps.pdf driver_lcd_ST7549T.pdf lcd_GVLCM9626G.pdf memory_i2c_24c02_DS.pdf temp_sensor_lm35d.pdf	
REva schematic	REVA schematic	REVA_EvalPart.pdf	3.3
Daughter board user Manual	Daughter board User Manual	REva_User_Guide_RDG6819.pdf	1.6
Daughter board schematic	Daughter board schematic	EMRDG6819_MLF32_V1_2.pdf EMRDG6819_MLF32_V2_0.pdf	1.2 2.0
Getting started EM6819 Getting started with Raisonance EM6819 tools	EM6819 Debug Manual	gettingstartedc816_em6819.pdf	30 September 2010
Starter-Kit Getting started sheet	Starter-Kit quick start	Quickstart_EM6819_Ride7.pdf	
CoolRISC coding guideline	CoolRISC coding guide	CoolRISC_coding_guidelines.pdf	1.1

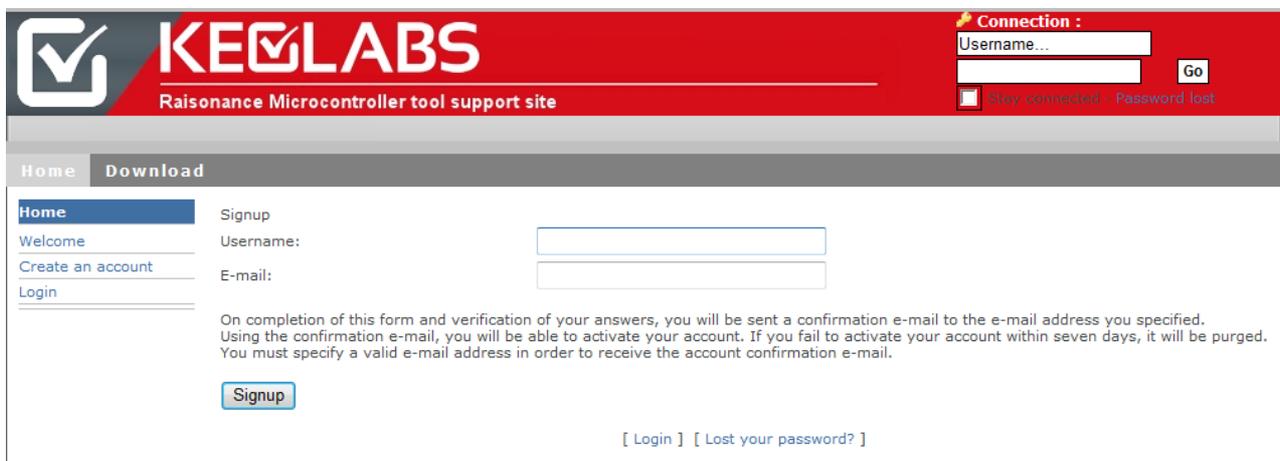### MACROS & LIBRARY

3. Setting up the Raisonance tools for C816

Before using any of the Raisonance tools for C816, the Ride7 and RKit-C816 software must be installed and registered.

3.1 Downloading the software

The most recent Ride7 and RKit-C816 can be downloaded from the Raisonance extranet website:
http://support-raisonance.com/extranet/home/

First you have to create an account, which is free and only requires a valid email.

Then go to the Download / Download pages and Rkit-C816.

Download the two files Ride7 and Rkit-C816 under the Last release section.

Generates a Serial Key. Use the **Rkit-C816 serial key generator** to create a serial number which will be emailed to you. **Save the key for later**.

Now you must install and register the software as explained in the following sections.

3.2 Installing the software

Perform these steps to install your new software:
1.   Remove old versions of Ride7 and RKits (if any).
2.   Install the new Ride7 software, then the RKit-C816 software, then validate its operation (test compilation, connection to RLink and to target CPU, etc.).

> **Note**: Some components of RKit-C816 (GCC, ...) will not work correctly if installed in a path containing spaces or other complex characters. Be careful when using Windows Vista and Windows 7, especially the 64-bit versions. These versions use a default install directory named "Program Files (x86)", which contains parentheses and will make the tools fail. To be sure that your tools work correctly we recommend you install the tools in a directory with a short and simple name, such as "c:\Raisonance".
> In the rest of this document, the installation directory of Ride7 will be referenced as "<RideInstallDir>".

3.   Launch **Ride7** and select **Help > License**. Register the software as explained in the following section.
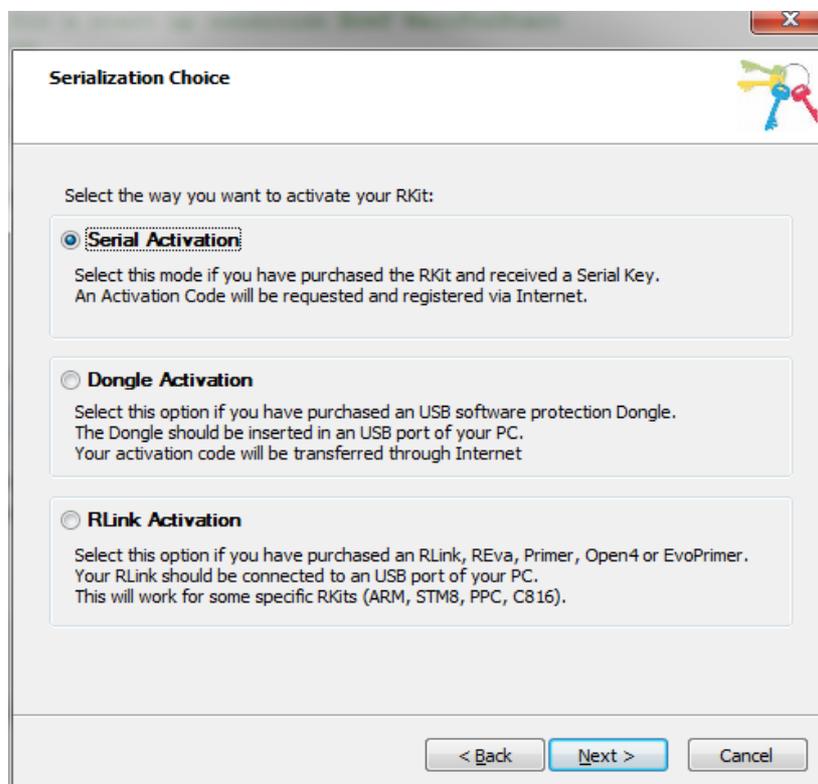
3.3 Registering the software

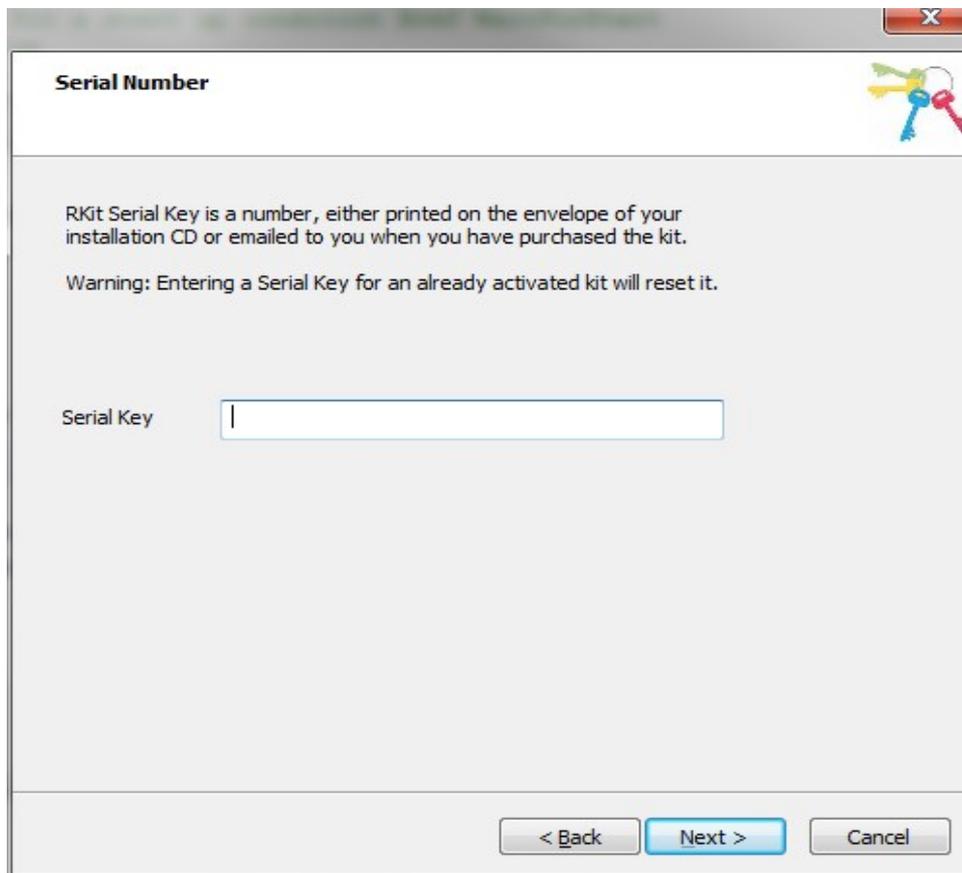The Ride7 and RKit-C816 software must be registered to operate correctly.

To activate the software you must register your RKit-C816 using your RKit-C816 Serial Key.

Unregistered software functions for a 7-day evaluation period with full features. After 7 days the software can no longer be used. If this occurs, contact info@raisonance.com.
1.   Log on as admin, ensure you have internet access, a working default browser and a working email address.
2.   Open Ride7. If it does not open automatically, click **Help->About Ride7**.
3.   Click the **Change License** button. Select the **Serial Activation** method, click **Next**.

4.   Enter the **Serial Key** provided to you (see 3.1 Downloading the software). Click **Next**.

5.   Connect to the internet and click **Get Activation code online** to open your browser on the Raisonance server.
6.   Fill in the form and click **Generate and Send Activation code**.
7.   Check your server for an email from Raisonance Support team with the **Activation Code**.
8.   Copy the **Activation Code** from the email to the Ride7 window. Click **Finish**.
9.   Close Ride7 and open it again. Check in the **About Ride7** window that you are in "Lite Suite" for RKit-C816 and "Standard version" for Ride7. Otherwise please contact the technical support (support@raisonance.com).

This is what the About Ride7 window should look like: