



**RAISONANCE**  
www.raisonance.com



# EM6819 Software installation notes

**Document version**  
29 September 2014

### 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 use during your EM6819 firmware development

#### 2.1 Downloading the software

Download EM6819 documentation and support database from EM FTP:

<ftp://emm-ftpuser: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".

## EM6819 Database and Raisonance tools for C816 installation notes

Application - Windows Internet Explorer provided by EM Microelectronic-Marin SA

D:\maup\_soft\DatabaseEM6819\RecapDeliverables.htm

File Edit View Favorites Tools Help

Google Search Share More Sign In

Web Slice Gallery

RKit-C816 download page Application

Page Safety Tools

**EM6819 Documentation and Software database.**  
September 29, 2014 XX update / new

**EM6819 SPECIFICATION**

DELIVERABLE	DOCUMENT NAME	FILE - SOURCE - CODE	REV.
<b>EM6819 Datasheet</b> Datasheet of EM6819 Microcontroller	<a href="#">EM6819 datasheet</a>	<a href="#">EM6819_DS.pdf</a>	<b>9.0</b>
<b>EM6819 -B300 Datasheet</b> Datasheet of EM6819 -B300 Microcontroller	<a href="#">EM6819 B300 datasheet</a>	<a href="#">6819-DS-02.pdf</a>	<b>3.0</b>
<b>EM6819 Programming Specification</b> Programming algorithm	<a href="#">EM6819 Programming Specification</a>	<a href="#">EM6819_ProqSpec.pdf</a>	1.20
<b>CoolRISC Manual</b> 8-bit CoolRISC Core Manual (architecture, instruction set, ...)	<a href="#">CoolRISC Manual</a>	<a href="#">cr816.pdf</a>	1.1

**TOOLS DEVELOPMENT**

DELIVERABLE	DOCUMENT NAME	FILE - SOURCE - CODE	REV.
<b>Assembler GNU manual</b> Assembler for CoolRISC C816 user manual	<a href="#">AS</a>	<a href="#">as_PDF</a>	1.0
<b>C-Compiler GNU manual</b> C-compiler for CoolRISC C816 user manual	<a href="#">GCC</a>	<a href="#">gcc.pdf</a>	1.0
<b>Linker GNU manual</b> Linker for CoolRISC C816 user manual	<a href="#">LD</a>	<a href="#">ld.pdf</a>	1.0
<b>Getting started C816</b> Getting started with Raisonance CoolRISC C816 tools	<a href="#">Getting started C816</a>	<a href="#">Gettingstartedc816_ride7.pdf</a>	11 May 2012
<b>REva user Manual</b>	<a href="#">REva User manual</a>	<a href="#">REva_User_Guide_MB.pdf</a>	3.0
<b>REva part datasheet</b>	<a href="#">REva part datasheet</a>	<a href="#">accelerometer_3D_10807.pdf</a> <a href="#">buzzer_ef532_ps.pdf</a> <a href="#">driver_lcd_ST7549T.pdf</a> <a href="#">lcd_GVLCM96266.pdf</a> <a href="#">memory_i2c_24c02_DS.pdf</a> <a href="#">temp_sensor_lm35d.pdf</a>	
<b>REva schematic</b>	<a href="#">REVA schematic</a>	<a href="#">REVA_EvalPart.pdf</a>	3.3
<b>Daughter board user Manual</b>	<a href="#">Daughter board User Manual</a>	<a href="#">REva_User_Guide_RDG6819.pdf</a>	1.6
<b>Daughter board schematic</b>	<a href="#">Daughter board schematic</a>	<a href="#">EMRDG6819_MLF32_V1_2.pdf</a> <a href="#">EMRDG6819_MLF32_V2_0.pdf</a>	1.2 2.0
<b>Getting started EM6819</b> Getting started with Raisonance EM6819 tools	<a href="#">EM6819 Debug Manual</a>	<a href="#">gettingstartedc816_em6819.pdf</a>	30 September 2010
<b>Starter-Kit Getting started sheet</b>	<a href="#">Starter-Kit quick start</a>	<a href="#">Quickstart_EM6819_Ride7.pdf</a>	
<b>CoolRISC coding guideline</b>	<a href="#">CoolRISC coding guide</a>	<a href="#">CoolRISC_coding_guidelines.pdf</a>	1.1

**MACROS & LIBRARY**

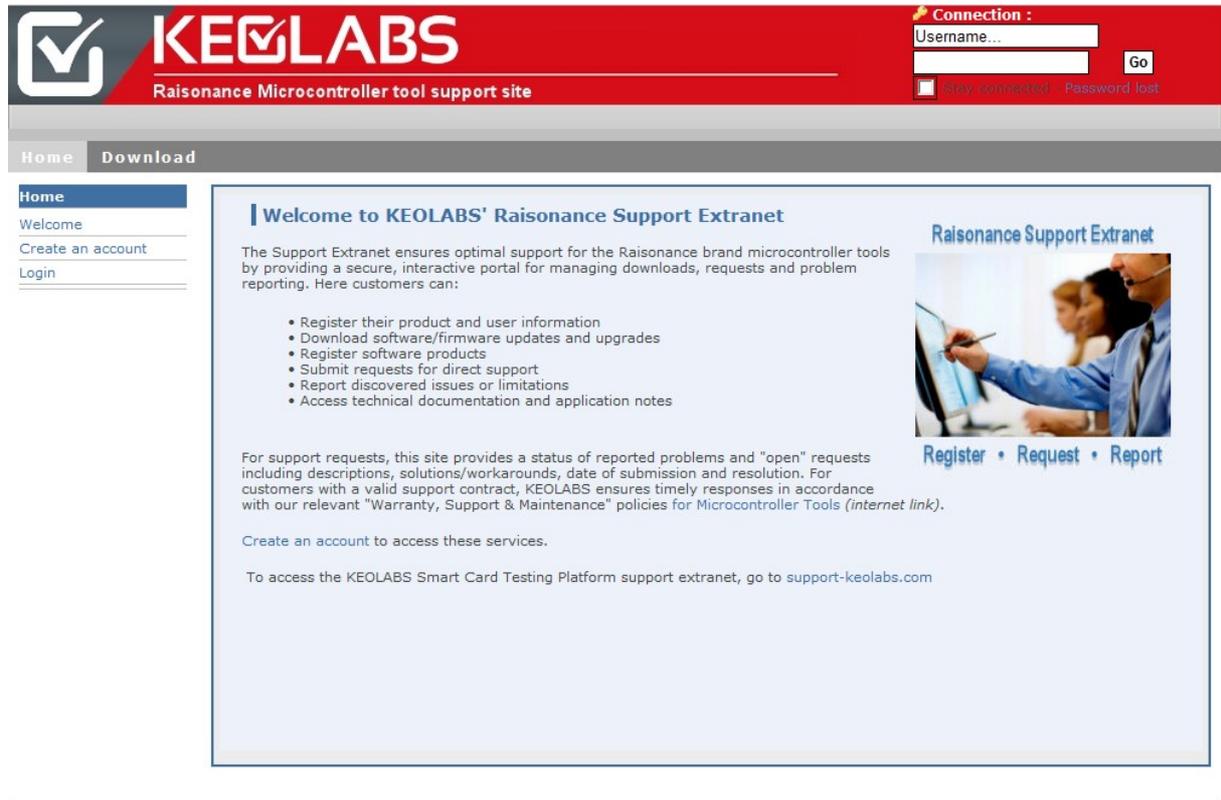
Computer | Protected Mode: Off 100%

### 3. Setting up the Raisonance tools for C816

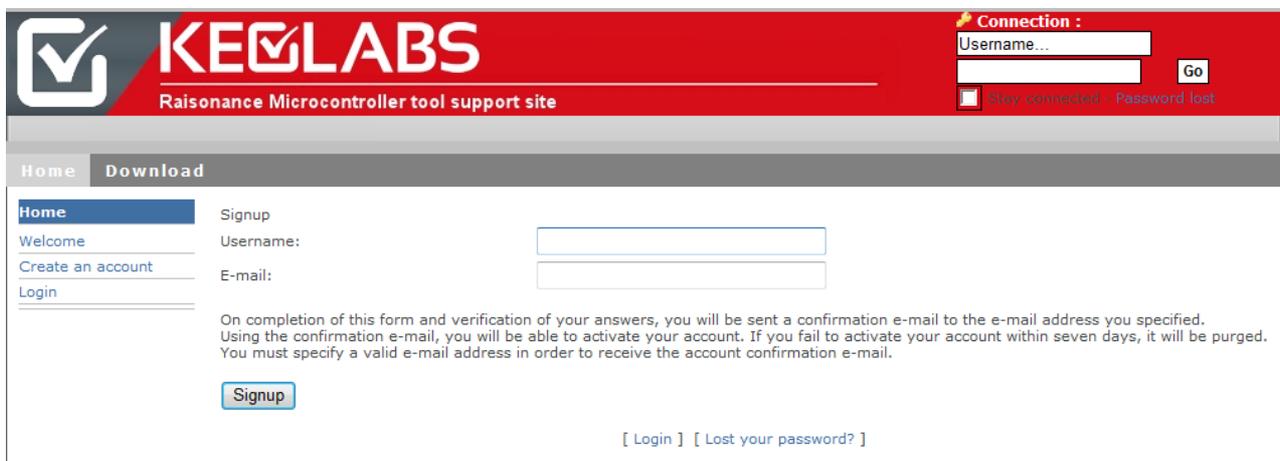
Before using any of the Raisonance tools for C816, the Ride7 and RKit-C816 software must be installed and registered.

#### 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.



## EM6819 Database and Raisonance tools for C816 installation notes

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

**KE@LABS**  
Raisonance Microcontroller tool support site

Connection :  
Username...  
Go  
Stay connected - Password lost

Home Download

Download  
Home

**MCU tools**

**Microcontroller Tool Downloads**

Raisonance software tools allow users to create applications for microcontrollers that implement a range of core architectures (ARM, 8051, ST7/STM8, PowerPC, CoolRISC). Raisonance Extranet downloads offer access to the latest versions of our software.

**Software Tool Download Pages**

The download pages below include:

- **RKit software download** for the MCU core family
- Associated **Ride7 download**
- Additional instructions and information

*Note: It is best to install the latest version of Ride7 available in the relevant RKit page in the table below. If you need them, downloads for previous versions of Ride7 are provided here.*

**Download pages**

<b>RKit-51</b>	6.16.13.0326	Raisonance Software Tool set for 8051
<b>RKit-ARM</b>	1.54.14.0185	Raisonance Software Tool set for ARM
<b>RKit-STM8</b>	2.52.13.0324	Raisonance Software Tool set for STM8 & ST7
<b>RKit-PPC</b>	1.20.12.0226	Raisonance Software Tool set for Power PC
<b>RKit-C816</b>	1.10.12.0215	Raisonance Software Tool set for CoolRISC (C816)

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

**Last release**

<b>RKit-C816 1.10.12.0215</b>	2012-08-02 12:15:37	Raisonance Software Tool set for CoolRISC (C816)	Download
<b>Ride 7.42.12.0305</b>	2012-10-24 15:03:25	Raisonance Integrated Development Environment	Download

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.**

**RKit-C816 serial key generator**

Company

Username \*  
(Give your extranet username or define it)

Firstname  Lastname

e-mail \*

Confirm your e-mail \*

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 RKit (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.

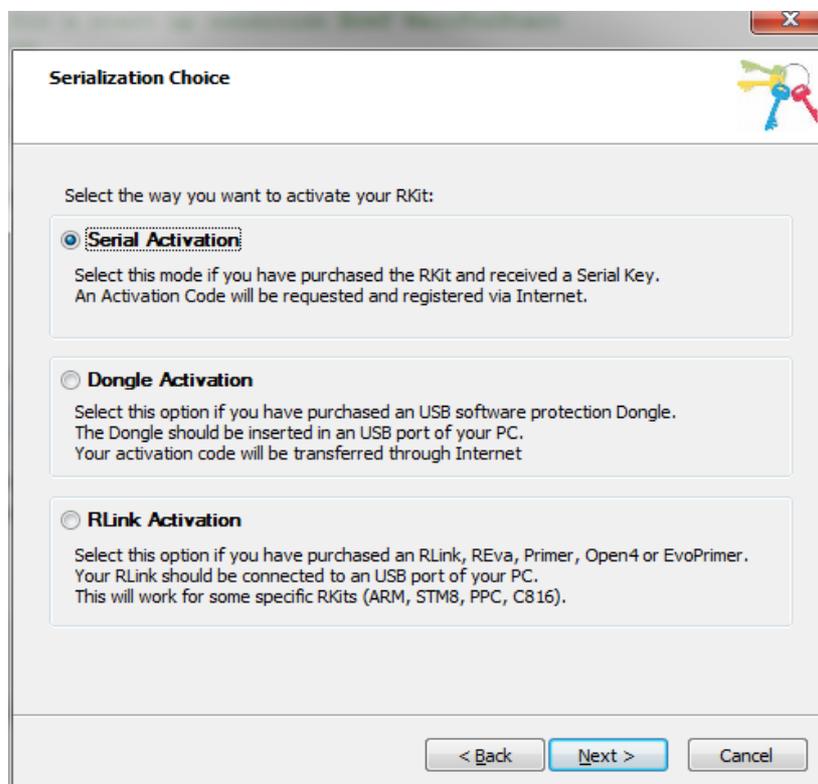
### 3.3 Registering the software

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

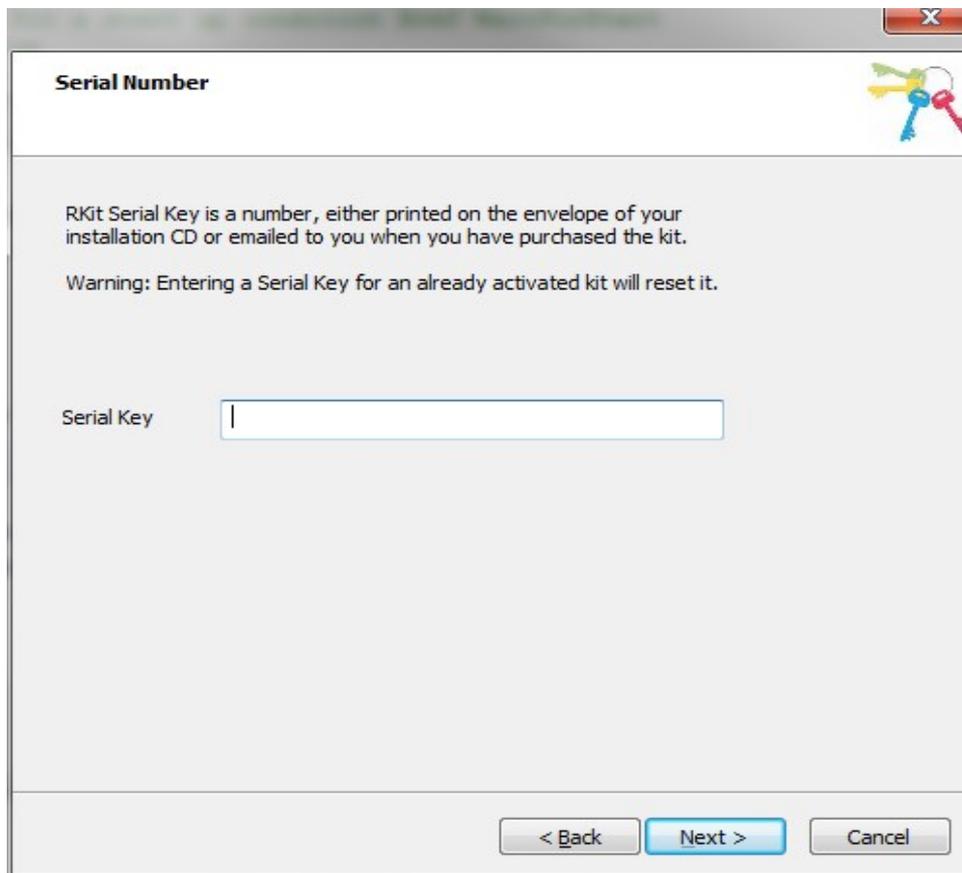
To activate the software you must register your RKit-C816 using your RKit-C816 Serial Key.

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](mailto: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**.



The screenshot shows a software window titled "Serial Number" with a close button (X) in the top right corner. The window contains the following text:

**Serial Number**

RKit Serial Key is a number, either printed on the envelope of your installation CD or emailed to you when you have purchased the kit.

Warning: Entering a Serial Key for an already activated kit will reset it.

Serial Key

At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

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:

