



## Tool Kit for EM6819 Family

### Description

The **EM6819** Tool kit offers a complete, flexible, affordable software and hardware development solutions for EM6819 family.

It provides a software tool chain, in-circuit debugging and programming capabilities, with all the features needed for developers to easily evaluate, create, build, and debug EM6819 based systems.

The **EM6819** Tool Kits are based on the **REva<sup>(TM)</sup>** mother board platform that consists of a generic motherboard with interchangeable daughter boards supporting several target microcontrollers and an embedded **RLink<sup>(TM)</sup>** for In-Circuit Programming and Debugging.

The Stand-alone **RLink** (available with **EMRLK6819**, **EMRLKP6819** and **EMRKP6819**) can be directly connected to the application through a cable and allows In-System programming and debugging down to 1.0V thanks to the Level-Shifter adaptor.

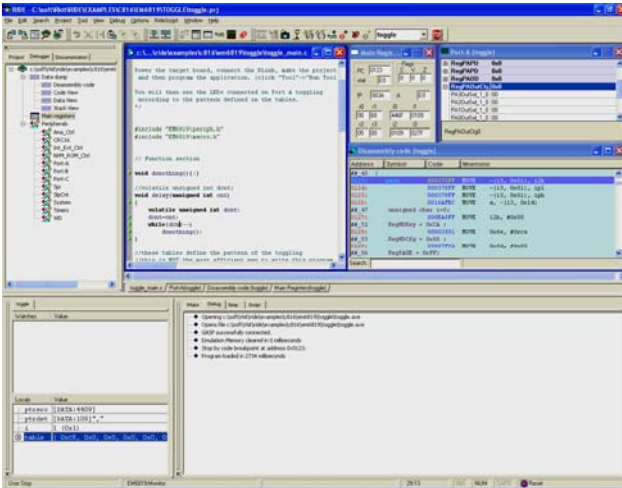
### Features

#### REva

- SO-DIMM format interchangeable daughter board with **EM6819** Microcontroller
- Digital and analog I/O evaluation features including on-board LEDs, buttons, switches, potentiometer
- Temperature sensor
- LCD module
- MEMS 3D-accelerometer
- On-board I<sup>2</sup>C EEPROM, RS232 driver,
- User wrapping or soldering area
- Various connector (DB9, HE-10, ...)
- Voltage settings 2.5V or 3.3V
- USB-Self powered, no additional power-supply required

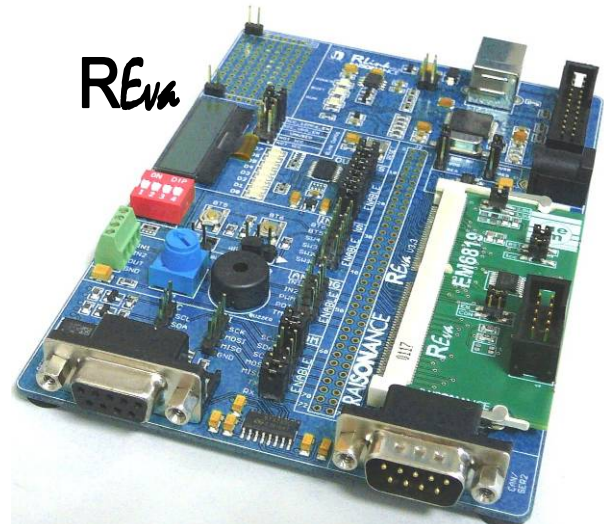
#### RIDE Integrated Development Environment

- Editor
- Project manager
- Unlimited C-Compiler (GNU for **CoolIRISC**)
- Assembler, Linker
- Programmer
- Debugger
  - Unlimited breakpoints
  - Watch window
  - Run / Stop / Reset
  - Step in, step over
  - Real **EM6819** emulation
  - Debug over the full voltage range



**RLink**, driven by the **RIDE<sup>(TM)</sup>** Integrated Development Environment, provides USB to host PC interface and connects to the **EM6819** for in-circuit programming and debugging through the GASP serial protocol used by **EM6819** family.

**RIDE** toolchain includes an editor, a project manager, a GNU C Compiler, an assembler and a linker. All are integrated into an easy to use software.





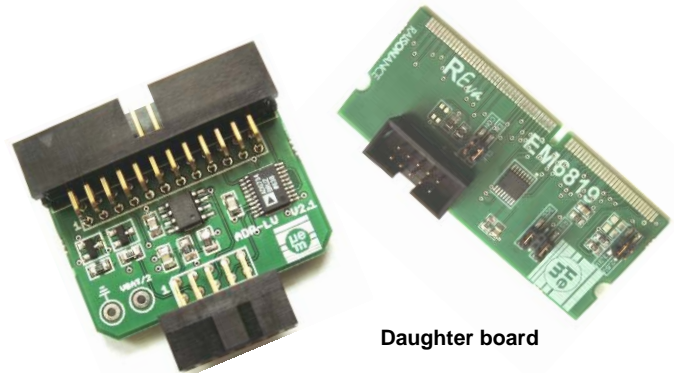
# Fact Sheet EM6819 Tool Kit

## ToolKits

The **EMRSK6819** Starter-kit provides a good path to start with the **EM6819** family. Since there is no limitation for programming and debugging, it's allowed up to 2K-instructions (program larger than 2K-instructions can be programmed but not debugged). This kit including a complete **REva** solution is ideal for evaluating **EM6819** and starting an application.

The **EMRKP6819** Pro-Kit and **EMRLKP6819** Pro-RLink provides the complete solution to develop your application providing all available features without any limitation. These packages include a stand-alone **RLink** including level-shifter adaptor and no limitation for neither programming nor debugging. The **EMRLKP6819** Pro-RLink is delivered with a **REva** Starter-Kit.

A Stand-alone **RLink** solution is also available (**EMRLK6819**).



Level shifter adaptor

Daughter board



Stand-alone RLink

## Deliverables

- REva** mother board
- RLink** attached to the mother board
- REva** daughter board
- All required cables
- Stand-alone **RLink** with level-shifter adaptor (**EMRLK6819**, **EMRKP6819** and **EMRLKP6819**)
- CD including **RIDE** software
- QuickStart tutorial

Tool Kit features	EMRSK6819	EMRKP6819	EMRLK6819	EMRLKP6819
<b>REva<sup>(*)</sup></b>				
▪ <b>REva</b> with embedded <b>RLink</b>	✓	✓		
▪ Daughter board	✓	✓		
<b>Stand-alone RLink</b>				
▪ <b>RLink</b>		✓	✓	✓
▪ Level-shifter adaptor down to 1V ( <b>ADP-LV</b> )		✓	✓	✓
▪ Cable for connection to the application		✓	✓	✓
Debugging up to 2K instructions	✓		✓	
Debugging Full		✓		✓
Programming	✓	✓	✓	✓
<b>RIDE</b> Integrated Development Environment	✓	✓	✓	✓
Unlimited C-compiler, assembler, linker	✓	✓	✓	✓

## Ordering Information

Product	Ordering Number
Starter-Kit for <b>EM6819</b>	<b>EMRSK6819</b>
Pro-Kit for <b>EM6819</b>	<b>EMRKP6819</b>
RLink for <b>EM6819</b>	<b>EMRLK6819</b>
Pro-RLink for <b>EM6819</b>	<b>EMRLKP6819</b>
Daughter board for <b>REva</b>	<b>EMRDG6819</b>

<sup>(\*)</sup>: **RIDE**, **REva**, **RLink** are product developed by **RAISONANCE SAS** Company. **RAISONANCE SAS** is a third-party company based in France designing and manufacturing embedded development tools (<http://www.raisonance.com>).