EM MICROELECTRONIC - MARIN SA



EM6819 Tool Kit

# 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>(\*)</sup> mother board platform that consists of a generic motherboard with interchangeable daughter boards supporting several target microcontrollers and an embedded **RLink**<sup>(\*)</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.

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**RLink**, driven by the **RIDE**<sup>(\*)</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.

#### 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 CoolRISC)
- Assembler, Linker
- D Programmer
- Debugger
  - Unlimited breakpoints
  - Watch window
  - Run / Stop / Reset
  - Step in, step over
  - Real EM6819 emulation
  - Debug over the full voltage range





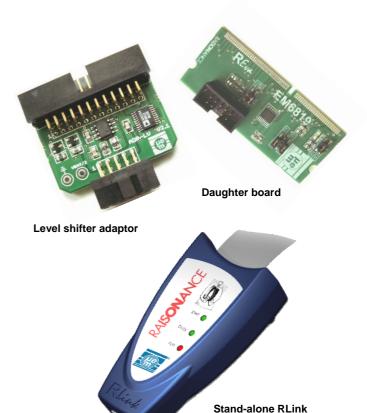
# Fact Sheet EM6819 Tool Kit

## 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).



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

#### **Ordering Information**

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

<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 (<u>http://www.raisonance.com</u>).