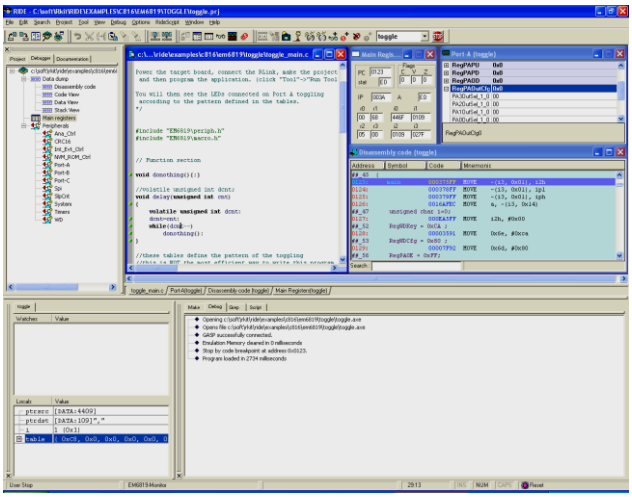
Tool Kit for EM6819 Family

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**(*) mother board platform that consists of a generic motherboard with interchangeable daughter boards supporting several target microcontrollers and an embedded **RLink**(*) for In-Circuit Programming and Debugging.
The Stand-alone **RLink** dongle (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.



RLink, driven by the **RIDE**(*) 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.

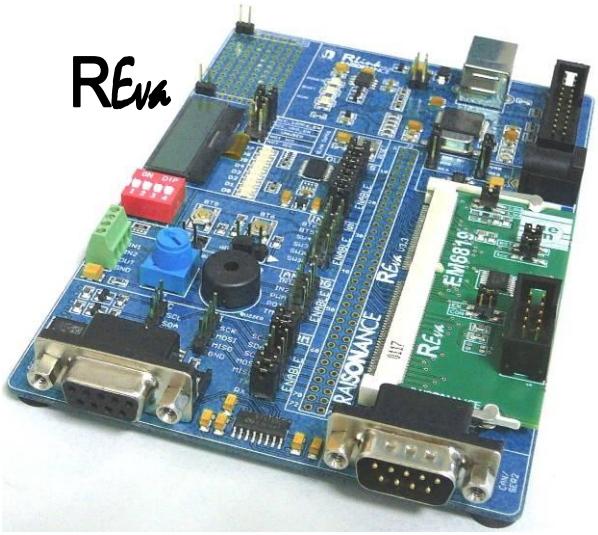
Features

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 I²C 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

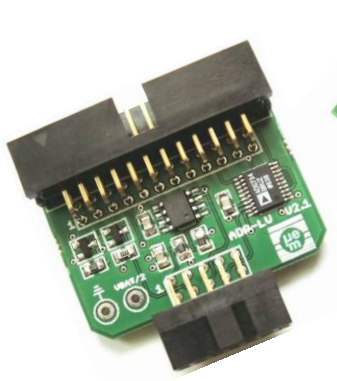
RIDE Integrated Development Environment

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



ToolKits

The **EMRSK6819** Starter-kit provides a good path to start with the **EM6819** family. There is no limitation for programming but debugging, is 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 provide the complete solution to develop your application with all available features. These packages include a stand-alone Pro-RLink dongle with level-shifter adaptor and no limitation in term of programming and debugging.
The **EMRKP6819** Pro-Kit is delivered with a **REva** Starter-Kit.
A Stand-alone **RLink** dongle 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
REva(*) ▪ **REva** with embedded **RLink** ▪ Daughter board	 ✓ ✓	 ✓ ✓		
Stand-alone **RLink** dongle ▪ **RLink** ▪ Level-shifter adaptor down to 1V (**ADP-LV**) ▪ Cable for connection to the application		 ✓ ✓ ✓	 ✓ ✓ ✓	 ✓ ✓ ✓
Debugging up to 2K instructions	✓		✓	
Debugging Full		✓		✓
Programming	✓	✓	✓	✓
RIDE 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**

(*): ***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).*