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**^(*) 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** (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**^(*) 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.

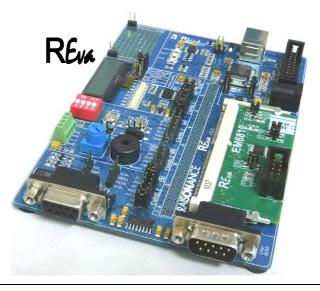
Features

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





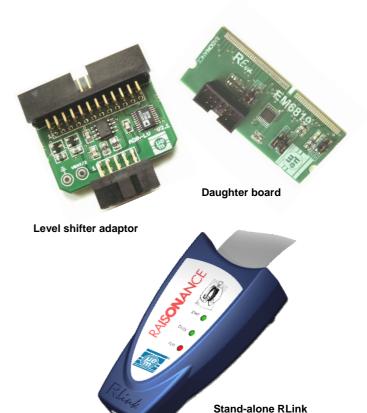
Fact Sheet EM6819 Tool Kit

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 ^(*) REva with embedded RLink Daughter board 	√ ✓	√ √		
Stand-alone RLink RLink Level-shifter adaptor down to 1V (ADP-LV) Cable for connection to the application 		√ √ √	√ √ √	✓ ✓ ✓
Debugging up to 2K instructions	✓	<i></i>	~	
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 (<u>http://www.raisonance.com</u>).