

Renesas Starter Kit for RX610

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Think it. Build it. Post it.
Community site and gathering place for technical information



Tool Stock and Availability

Please contact your distributor for the orderable part number for this device.

(Prototype board)

Renesas Starter Kit for RX610

Target Devices

RX610 Group

Device Part No. populated on the board: R5F56107VNFP (RX610 Group)

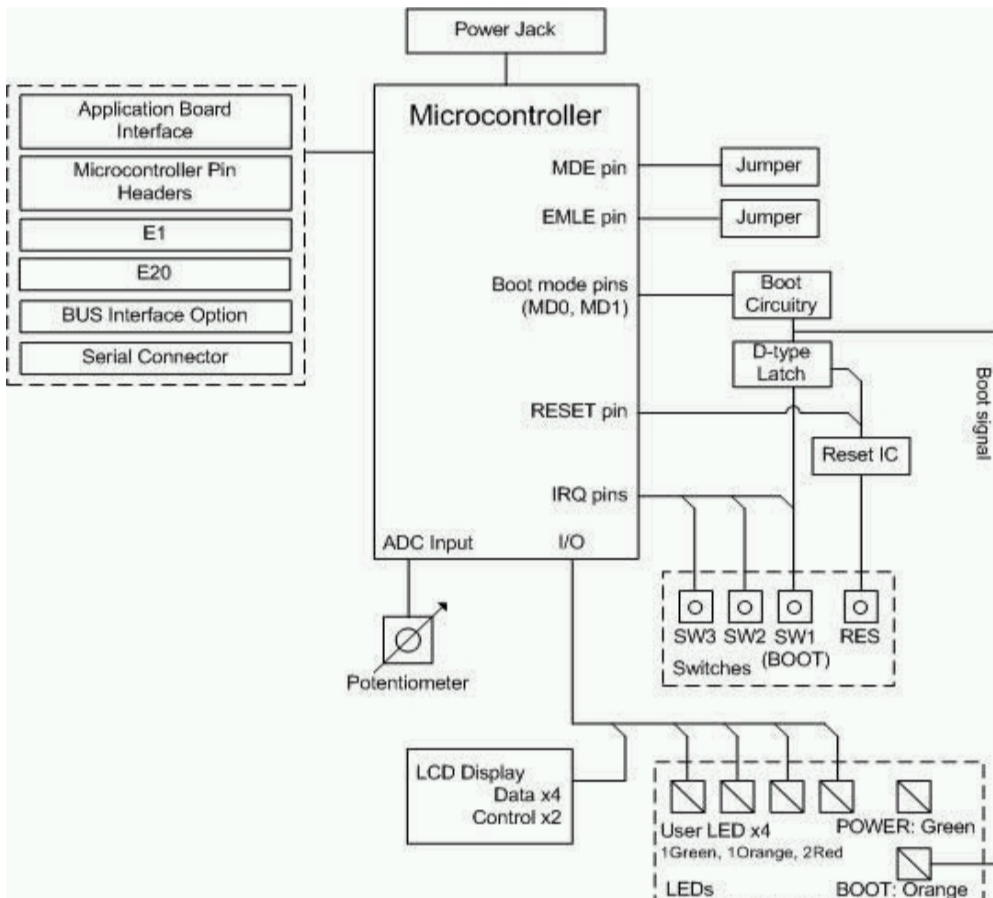
Product Overview

The Renesas Starter Kit for RX610 is intended as a user-friendly introductory and evaluation tool for the RX610 microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using High-performance Embedded Workshop as well as programming the device using E1 emulator and/or Flash Development Toolkit.

The Renesas Starter Kit for RX610 may be connected to the host PC using a simple RS232 serial connection or via the included USB E1 on chip debugging interface.

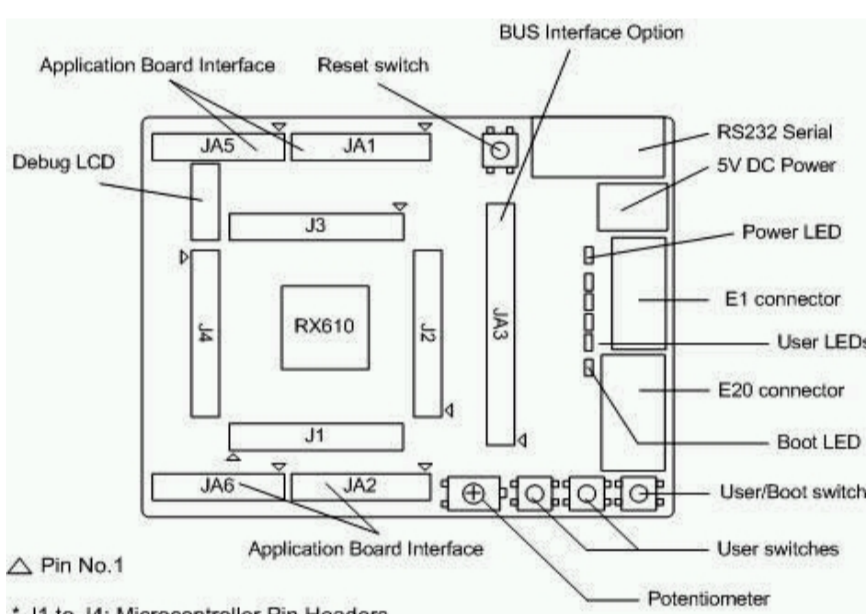
The purpose of the board is to enable the user to evaluate the capabilities of the device and its peripherals by giving the user a simple platform on which code can be run only minutes from opening box. It can also prove an invaluable tool in development by providing a useful test platform for code already debugged using one of our more powerful emulation tools.

Functional Representation



Board Layout

The LCD display module is supplied as a detachable sub-board. The board dimensions are 120 mm by 100 mm, detailed dimensions are available in the user manual.



Board Specification

Item	Specification
Microcontroller	R5F56107VNFP
Input Clock	Main: 12.5 MHz
Potentiometer	Single -turn, 10 k ?
LED	Power indicator: green x 1 Boot indicator: orange x 1 User: green x 1, orange x 1, red x 2
Switch	Reset x 1 User/Boot x 1 User x 2
DC Power Jack	5 V Input
E1 Header	14 -pin box header
E20 Connector	38 -pin Mictor Connector
RS232 Serial Connector	9-pin DSUB
LCD Display Connector	14 -pin socket
Microcontroller Pin Header	2.54 mm pitch, 30 -pin x 2 (J1, J3), 20 -pin x 2 (J2, J4)
Application Board Interface	2.54 mm pitch, 26 -pin x 2 (JA1, JA2), 24 -pin x 2 (JA5, JA6)
BUS Interface Option	2.54 mm pitch, 50 -pin (JA3)

* E20 Connector, Microcontroller Pin Header, Application Board Interface and BUS Interface Option are not contained in the product.

* The potentiometer is fitted to offer an easy way of supplying a variable analog input to the controller. It does not necessarily reflect the accuracy of the controllers ADC. Please see the device manual for details.

Manufacturer Name: PIHER INTERNATIONAL CORPORATION
Part Number: N6R (6 mm RoHS reflowable potentiometer)

Kit Contents

- ? CPU Board
- ? Detachable LCD Display Module
- ? Detachable AD Adjustment Shaft
- ? E1 Emulator
- ? Connection Cable (USB Cable, User Interface Cable)
- ? Quick Start Guide
- ? CD-ROM
 - Documents: User Manual, Tutorial, and more
 - IDE: High-performance Embedded Workshop
 - C Compiler: C/C++ Compiler Package for RX Family Evaluation Version
 - Debugger: E1/E20 Emulator Debugger
 - Flash Memory Programmer: Flash Development Toolkit Evaluation Version

Notes

- ? The C/C++ Compiler Package for RX Family Evaluation Version does not come with technical support services. In addition, The C/C++ Compiler Package for RX Family Evaluation Version has some restrictions compared to the Product Version.

Trial period: 60 days

The link size will be limited to 128 KB after 60 days.

- ? The Flash Development Toolkit Evaluation Version does not come with technical support services.

PC System Requirements

- ? IBM PC/AT or compatible PC (USB interface necessary) *1
- ? Intel Pentium ? 600 MHz or higher *3
- ? Memory 128 MB or higher
- ? Microsoft Windows 2000/ Windows XP / Windows Vista *2

*1: IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.

*2: MS, MS -DOS and Windows are trademarks of Microsoft Corporation of the U.S. No support for Windows Vista editions.

*3: Pentium is a trademark of Intel Corporation of the U.S.

Technical Support

If you encounter problems concerning the bundled debugger (E1), please contact <http://www.renesas.com/inquiry>.

When contacting us, please have the following information ready:
your name, company name, department name, fax number, MCU part number (ex. MCU: R5F56107VNFP), tool part number, version of debugger and a brief description of the problem.

C/C++ Compiler Package for RX Family Evaluation Version and Flash Development Toolkit Evaluation Version do not come with technical support services.

Ordering Information

This product can be purchased through [the normal sales channels](#).

Product Name	Debugger Supplied	Part Number (Ordering Number)	Availability
Renesas Starter Kit for RX610	E1	R0K556100S000BE	Available