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Renesas Starter Kit for RL78/G14

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**Renesas Starter Kit for
RL78/G14**

Renesas Starter Kit for
RX610

Renesas Starter Kit for
RX62G

Renesas Starter Kit+ for
RX62N

Renesas Starter Kit for
RX62T

Renesas Starter Kit+ for
RX63N

Renesas Starter Kit for
RX630

Renesas Starter Kit for
RX210

Renesas Starter Kit for
RL78/G13

Renesas Starter Kit for
SH7124

Renesas Starter Kit+ for
SH7264

Renesas Starter Kit+ for
SH7269

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SH7201

Renesas Starter Kit+ for
SH7203

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SH7137

Renesas Starter Kit+ for
SH7216

Renesas Starter Kit for
SH7211

Renesas Starter Kit for
R8C/23

Renesas Starter Kit for
R8C/25

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R8C/27

Renesas Starter Kit for
R8C/2D

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R8C/35C

Renesas Starter Kit for
R8C/38C

Renesas Promotional Board
for R8C/M12A

Renesas Starter Kit for
R8C/L3AC

Renesas Starter Kit for
R8C/LA8A

Renesas Starter Kit for
M16C/29

Renesas Starter Kit for
M16C/62P

Renesas Starter Kit for
M16C/65

Renesas Starter Kit for
M16C/6C

Renesas Starter Kit for
M32C/87

Overview   Documentation   Downloads   Design Support

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

Block Diagram   Layout and Specification   Configuration   PC System Requirements

Technical Support   Ordering Information

Renesas Starter Kit for RL78/G14

Target Devices

RL78/G14

Device Part No. populated on the board: R5F104PJAFB (RL78/G14)

Product Overview

The Renesas Starter Kit for RL78/G14 is intended as a user-friendly introductory and evaluation tool for the RL78/G14 microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using CubeSuite+ as well as programming the device using E1 emulator and/or Renesas Flash Programmer.
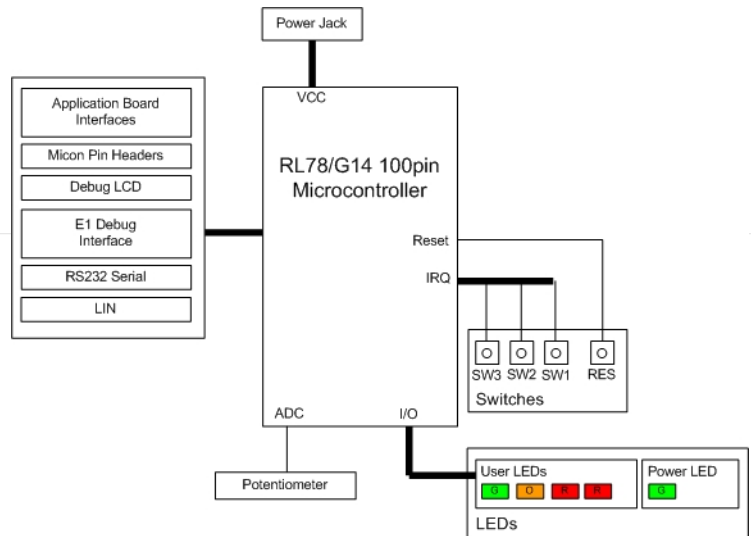
The Renesas Starter Kit for RL78/G14 may be connected to the host PC using the included USB E1 on chip debugging interface.

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.

* CubeSuite+ is not generally promoted to the U.S. and European customers. Customers in the U.S. and Europe who are interested in CubeSuite+ are requested to contact our regional marketing departments for details.
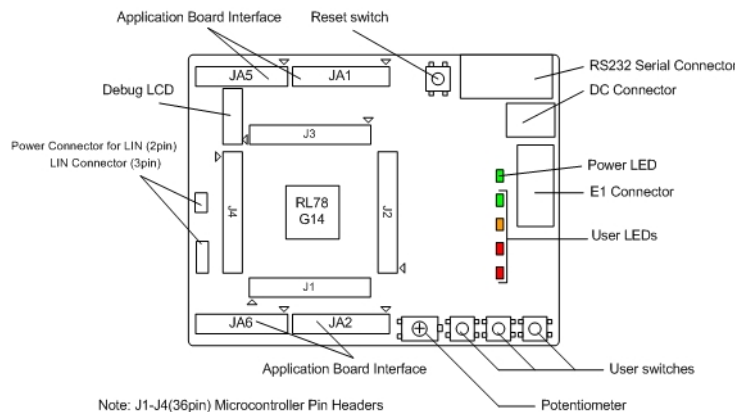
Block Diagram

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Layout and Specification

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.

Note: J1-J4(36pin) Microcontroller Pin Headers

Item	Specification
Microcontroller	R5F104PJAFB
Input Clock	Main: 20 MHz
	Sub: 32.768 kHz
Potentiometer	Single-turn, 10 kΩ
LED	Power indicator: green x 1
	User: green x 1, orange x 1, red x 2
Switch	Reset x 1
	User x 3
DC Power Jack	5 V Input
E1 Header	14-pin box header
RS232 Serial Connector	9-pin DSUB
LCD Display Connector	14-pin socket
LIN Connector	2.54 mm pitch, 3-pin x 1 (VBAT x 1, LIN Bus Line x 1, GND x 1)
Microcontroller Pin Header	2.54 mm pitch, 36-pin x 4 (J1, J2, J3, J4)
Application Board Interface	2.54 mm pitch, 26-pin x 2 (JA1, JA2), 24-pin x 2 (JA5, JA6)

* Microcontroller Pin Header, Application Board Interface and LCD Connector 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)

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Configuration

[Kit with Renesas CubeSuite+]

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:	CubeSuite+ (Evaluation Software) RL78, 78K0R Compiler Debugger: E1 Emulator Debugger
- Flash Memory Programmer:	Renesas Flash Programmer (Evaluation Software)

Notes

The CubeSuite+ Evaluation Software does not come with technical support services. In addition, The CubeSuite+ Evaluation Software has some restrictions compared to the Product Version.

- The scope of available memory is restricted to 64 KB of the internal ROM (0-FFFFh) and to the internal RAM.

The Renesas Flash Programmer Evaluation Software does not come with technical support services.

[Kit with e^{2}studio]

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:	e^{2}studio KPIT GNURL78 Toolchain E1 Emulator Debugger and more

PC System Requirements

[Kit with Renesas CubeSuite+]

IBM PC/AT or compatible PC (USB2.0 interface necessary) *1
Processor 1 GHz or higher (must support hyper-threading, multi-core CPUs)
Memory 2 GB or more recommended. Minimum requirement is 1 GB or more (64-bit Windows requires 2 GB or more) *2
Hard disk 600 MB or more spare capacity
Display 1024 x 768 or higher resolution, 65,535 or more colors
Microsoft Windows XP / Windows Vista / Windows 7 *2
All other necessary software environments in addition to Windows OS.
- .NET Framework 3.5 SP1
- Microsoft Visual C++ 2008 SP1 runtime library
- Internet Explorer 6.0 or later

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

[Kit with e^{2}studio]

IBM PC/AT or compatible PC (USB2.0 interface necessary) *1
Processor 1.6 GHz or higher
Memory 1 GB or more recommended.
Microsoft Windows XP / Windows 7 *2

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

Technical Support

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

When contacting us, please have the following information ready:
your name, company name, department name, fax number, MCU part number (ex. MCU: R5F104PJAFB), tool part number, version of debugger and a brief description of the problem.

CubeSuite+ Evaluation Software and Renesas Flash Programmer Evaluation Software do not come with technical support services.

Ordering Information

These products can be purchased through the normal sales channels.

Product Name	Debugger Supplied	Part Number (Ordering Number)	Availability

Renesas Starter Kit for RL78/G14 (Kit with Renesas CubeSuite+)	E1	R0K50104PS000BE	Available
Renesas Starter Kit for RL78/G14 (Kit with e^{2}studio)	E1	YR0K50104PS000BE	Available

* CubeSuite+ is not generally promoted to the U.S. and European customers. Customers in the U.S. and Europe who are interested in CubeSuite+ are requested to contact our regional marketing departments for details.

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