



Renesas Starter Kit for RX111

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Renesas Starter Kit for RX111

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- Renesas Starter Kit for R8C/35C
- Renesas Starter Kit for R8C/38C
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Renesas Starter Kit for RX111

Target Devices

RX111

Device Part No. populated on the board: R5F51115ADFM (RX111)

Product Overview

The Renesas Starter Kit for RX111 is intended as a user-friendly introductory and evaluation tool for the RX111 microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using CubeSuite+.

Renesas Starter Kit for RX111 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.

Product Limitation

Renesas Starter Kit for RX111 Product Limitation (16 Oct 2013)

A limitation exists with the board used on a batch of Renesas Starter Kit for RX111 Products.

Serial Numbers Affected: 00045380 to 00045879 inclusive.

Limitation:

The RSKRX111 board 3.3V supply is actual at 3.8V.

Explanation:

By mistaken voltage regulator mounting, regulator does not provide 3.3V.

Work-around:

Please modify the RSKRX111 board as follows.
This modification will provide 3.3V.

Remove R103 and replace R104 with 0R resistor.
Link J7 should be left open.

Block Diagram



Community site and gathering place for technical information

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 M82C/87

Renesas Starter Kit for R32C/111

Renesas Starter Kit for R32C/118

Renesas Starter Kit for HBSX/1622F

Renesas Starter Kit for HBSX/1668

Renesas Starter Kit for HBS/2215R

Renesas Starter Kit for HBS/2456R

Renesas Starter Kit for HB/38099

Renesas Starter Kit for HB/38347

RX62N TFT-LCD Direct-Drive Demo Kit

Renesas Starter Kit LCD Application Board

Renesas Starter Kit Ethernet & USB Application Board

Capacitive Touch Evaluation Kit

DM-78K0R-KE3L (78K0R Low-Power Kit)

EV-K0-HCD

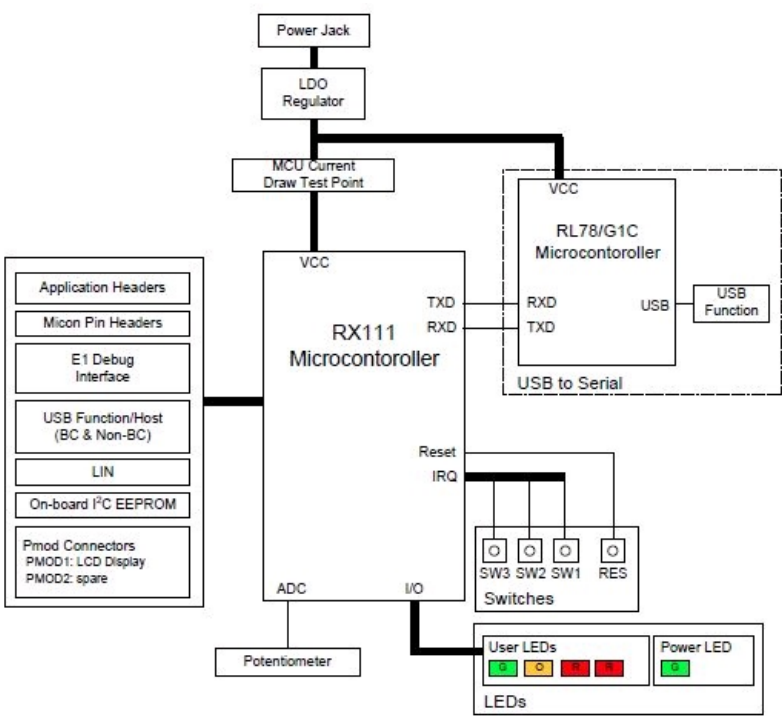
RX600 TFT-LCD Direct-Drive Demo Kit

Renesas Starter Kit+ for SH7267

TFT-LCD Direct Drive Demo Kit YL0DRSK2456S

TFT-LCD Direct-Drive Demo Kit YL0DRSK1668

TFT-LCD Direct-Drive Demo Kit YL0DRSK2378

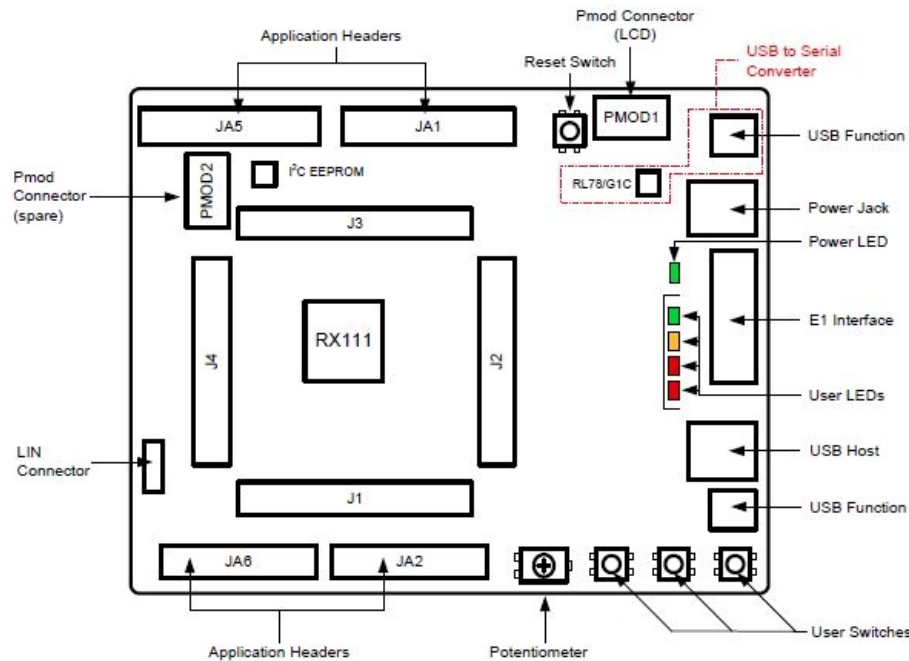


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Layout and Specification

Mnochrome LCD Board Pmod™ Compatible* is supplied as a detachable sub-board. The board dimensions are 120 mm by 100 mm; detailed dimensions are available in the user manual.

* Pmod™ is the trademark of Digilent Inc.



Item	Specification
Microcontroller	RX111 (R5F51115ADFM)
On-board Memory	I ² C EEPROM(R1EX24016ASAS0A) : 16K-bit
Input Clock	Main: 16 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
USB Connector	USB CH0-Function: USB MiniB
	USB CH0-Hbst: USB TypeA
LIN Connector	2.54mm pitch, 3-pin (VBAT x 1, LIN Bus Line x 1, GND x 1)
USB to Serial Converter Interface	RL78/G1C (R5F10JBCANA)
	USB Connector (USB MiniB)
Pmod Connector	2.54mm pitch, 12-pin x 2 (Pmod1, Pmod2)
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)
BUS Interface Option	2.54 mm pitch, 50-pin (JA3)

* Microcontroller Pin Header and Application Board Interface 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
- Monochrome LCD Board Pmod™ Compatible
- Detachable ADAdjustment Shaft
- E1 Emulator
- Connection Cable (USB Cable, User Interface Cable)

- Quick Start Guide
- DVD-ROM
 - Documents: User Manual, Tutorial, and more
 - IDE: CubeSuite+ (Evaluation Software)
C/C++ Compiler Package for RX Family Evaluation Version
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 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 Renesas Flash Programmer Evaluation Software does not come with technical support services.

[Kit with e²studio]

- CPU Board
- Monochrome LCD Board Fmod™ Compatible
- Detachable ADAdjustment Shaft
- E1 Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Quick Start Guide
- DVD-ROM
 - Documents: User Manual, Tutorial, and more
 - IDE: e²studio
C/C++ Compiler Package for RX Family Evaluation Version
E1 Emulator Debugger
and more

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.

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PC System Requirements

[Kit with CubeSuite+]

- IBM PC/AT or compatible PC (USB 2.0 interface necessary) *1
- Processor 1GHz or higher (must support hyper-threading, multi-core CPUs)
- Memory 2GB or more recommended. Minimum requirement is 1GB or more (64-bit Windows requires 2GB or more) *2
- Display 1024 x 768 or higher resolution, 65,535 or more colors
- Microsoft Windows XP / Windows Vista / 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.

[Kit with e²studio]

- IBM PC/AT or compatible PC (USB 2.0 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.

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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: R5F51115ADFM), 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

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

Product Name	Debugger Supplied	Part Number (Ordering Number)	Availability
Renesas Starter Kit for RX111 (Kit with Renesas CubeSuite+)	E1	R0K505111S000BE	Available
Renesas Starter Kit for RX111 (Kit with e ² studio)	E1	YR0K505111S000BE	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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