

## Renesas Starter Kit for RX610

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Test case: 11/1/11

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**Test Stock and Availability**

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

(Prototype board)

**Renesas Starter Kit for RX610**

**Target Devices**

[Block Diagram](#)

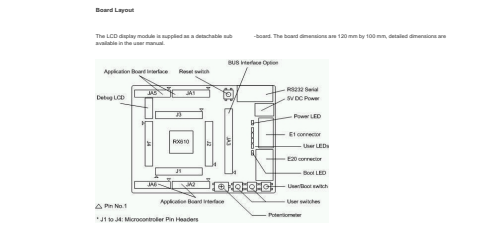
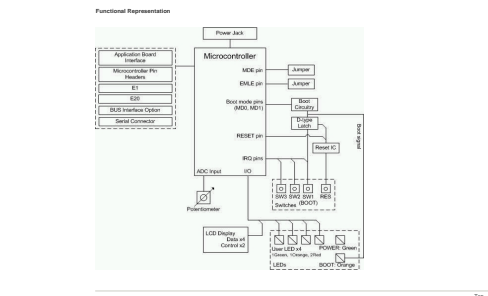
Device Part No. populated on the board: R5F2510V-NFP (RX610 Group)

**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-End 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 one 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 the box. It can also prove an invaluable tool in development by providing a useful test platform for code already developed using one of our more powerful evaluation tools.



**Board Specification**

Item	Specification
Microcontroller	R5F2510V-NFP
Input Clock	Max. 12.5 MHz
Microcontroller	Supply: max. 1.8 V
LED	Power indicator: green x 1 Boot indicator: orange x 1 User: green x 1, red x 1, red x 2
Switch	Board: 1 Interface: 1
DC Power Jack	Size: 2.5
E1 Header	8-pin header
RS232 Connector	9-pin D-sub
LCD Display Connector	14-pin module
Microcontroller Pin Header	54 mm pitch: 20 - pins 2, 3, 1, 18, 20 - pins 2, 22, 16
Application Board Interface	54 mm pitch: 20 - pins 2, 3, 1, 18, 20 - pins 2, 22, 16
Bus Interface Option	54 mm pitch: 20 - pins (L/A/S)

\* E1 Connector, Microcontroller Pin Header, Application Board Interface and BUS Interface Option are not contained in the product.

\* The potentiometer & board is only used in supplying variable analog input to the controller. It does not necessarily reflect the accuracy of the controller. ADC. Please see the device manual for details.

Manufacturer Name: RENESAS ELECTRONICS CORPORATION  
Part Number: N5R (if non-RoHS compliant version)

- Kit Contents**
- CPU Board
  - Detachable LCD Display Module
  - Detachable I/O Adjustment Switch
  - E1 Emulator
  - Connection Cables (USB Cable, User Interface Cable)
  - Quick Start Guide
  - CD-ROM
    - Document: User Manual, Tutorial, and more
    - CD: High performance Embedded Workshop
    - C-Compiler: C/C++ Compiler Package for RX Family Evaluation Version
    - Debugger: E1/RS2 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.
  - Intel® Pentium® 80 pins**
    - The kit 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® 7: 600 MHz or higher\*2
- Memory: 128 MB or higher
- Microsoft Windows 2000/Windows XP/Windows Vista\*2
- \*1: Microsoft Windows 2000/Windows XP/Windows Vista
- \*2: MSN, MSN, MSN and Windows are registered trademarks of Microsoft Corporation of the U.S. No support for Windows Vista
- \*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 [mailto:renesas@renesas.com](mailto:mailto:renesas@renesas.com)

When contacting us, please have the following information ready: your name, company name, department name, fax number, MCU part number (see MCU: R5F2510V-NFP), test part number, version of debugger and test version of your device.

**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 [Authorized Sales Channels](#)

Product Name	Debugger Supplied	Part Number (Ordering Member)	Availability
Renesas Starter Kit for RX610	E1	R5R0510000000	Available