

Renesas Starter Kit for SH7137

Target Devices

Device Group: SH7137
Device Part No. populated on the board: RSP171374Z02FPV

For more information on the microcontroller please view the SH7137 Device page. [Link to SH7137 Device.asp](#)

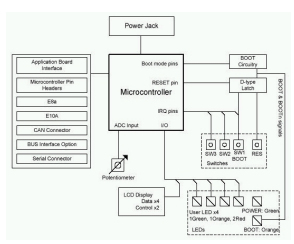
Product Overview

The Renesas Starter Kit for SH7137 is intended as a userfriendly introductory and evaluation tool for the SH7137 microcontroller. The board also provides a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using HighPerformance Embedded Workshop as well as programming the device using EISA emulators.

The Renesas Starter Kit for SH7137 may be connected to the host PC using a simple RS232 serial connection or via the included USB EISA 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



Kit Contents

- 1 CPU Board
- 1 Detachable LCD Display Module
- 1 Detachable AD Adjustment Switch
- 1 EISA/USB for Starter Kit
- 1 Connection Cable (USB Cable, User Interface Cable)
- 1 Multi-region 5V power supply
- 1 Quick Start Guide
- 1 CD-ROM
 - Documents - User Manual, Tutorial, and more
 - IDE - HighPerformance Embedded Workshop
 - CC++ Compiler - CC++ Compiler Package for SuperH Family Evaluation Version
 - Debugger - EISA/USB Emulator Debugger

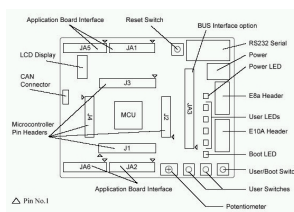
Notes

- 1 EISA/USB for Starter Kit is a special emulator for only Renesas Starter Kit products.
- 1 The CC++ Compiler Package for SuperH Family Evaluation Version does not come with technical support services. In addition, The CC++ Compiler Package for SuperH Family Evaluation Version has some restrictions compared to the Product Version.

Total period: 60 days
The kit size will be limited to 250KB after 60 days.

Board Layout

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



Item	Specification
Microcontroller	RSP171374Z02FPV
Input Clock	10MHz
Potentiometer	Singalton, 10k
LED	Power indicator: green x 1 Boot indicator: orange x 1 User: green x 1, orange x 1, red x 2 Power x 1
Switch	User/Boot x 1 User x 2
DC Power Jack	5V Input
EISA Header	14-pin box header
EISA Header	14-pin box header
RS232 Serial Connector	9-pin D-sub
LCD Display Connector	14-pin socket
CAN Connector	2.54mm pitch, 3pin (CAN Bus line x 2, Ground x 1)
Microcontroller Pin Header	2.54mm pitch, 30pin x 2 (J1, J3, 20pin x 2 (J2, J4)
Application Board Interface	2.54mm pitch, 28pin x 2 (JAK1, JAK2), 24-pin x 2 (JAS, JAG)
BUS Interface Option	2.54mm pitch, 50pin

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

Ordering Information

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

Product Name	Debugger Supported	Part Number (Ordering Number)	Availability
Renesas Starter Kit for SH7137	EISA	RSP171374Z02FPV	Available

PC System Requirements

- 1 IBM PC/AT or compatible PC (USB interface necessary)¹⁾
 - 1 Intel Pentium® 800MHz or higher²⁾
 - 1 Memory 128MB or higher
 - 1 Microsoft Windows 2000/Windows XP²⁾
- ¹⁾ IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
²⁾ Intel, Pentium and Windows are registered trademarks of Microsoft Corporation of the U.S.
³⁾ Pentium is a trademark of Intel Corporation of the U.S.

Technical Support

If you encounter problems concerning the bundled debugger (EISA/USB), please contact info@renewable-energy-storage.com or renewable-energy-storage@renewable-energy-storage.com

When contacting us, please have the following information ready: your name, company name, department name, fax number, RCU part number (ex. MC RSP171374Z02FPV), tool part number, version of debugger and a brief description of the problem.

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