

RX62N Group

Renesas Starter Kit Sample Code

R01AN0318EG0100 Rev.1.00 June 21, 2011

Introduction

Renesas Starter Kits (RSK) are supplied as complete development systems for the selected microcontroller. The kit includes an evaluation board, portable On Chip Debugger and a set of peripheral sample code. This peripheral sample code is supplied as a Hi-performance Embedded Workshop (HEW) workspace with this document

Target Device

RX62N

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1. Opening the sample code workspace

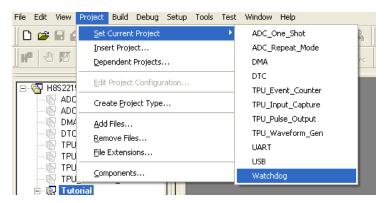
The RSK sample code is supplied as a Hi-performance Embedded Workshop (HEW) workspace. This workspace should be copied to a suitable folder on your PC. The default location that HEW will look for workspace files is c:\workspace.

Once copied to a suitable location the workspace can be opened by double clicking the file "RX62N.hws" or within HEW from the File | Open Workspace menu item.

2. Loading the selected sample code project

Within the workspace there are a number of separate projects. Each project contains the source files for the specific peripheral sample code.

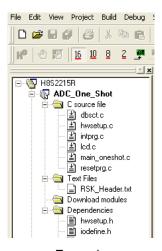
Once the workspace is loaded into HEW the required sample project must be loaded before you can be open the source files. From the Project | Set current project menu item select the required project name.



Example

3. Opening sample code source files

Once the project is loaded the source code and all dependant files can be opened in the editor by double clicking the file in the workspace window.



Example

4. Source code functionality

Each source code project is specifically written to run on the appropriate RSK. However this source code can be useful as an example of peripheral initialization even without the RSK.

Each sample project will contain a C source file that includes "main" in the name, for example "main_oneshot.c". This source file will include the C function main() as well as a comment block that describes the function of the sample code.

5. Appendix

Example of comment block with code functionality

6. Website and Support

Renesas Electronics Website

http://www.renesas.com/

Inquiries

http://www.renesas.com/inquiry

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7. Revision Record

Description

Date	Page	Summary	
Jun 21, 2011	_	First edition issued	
		Date Page	Date Page Summary

General Precautions in the Handling of MPU/MCU Products

The following usage notes are applicable to all MPU/MCU products from Renesas. For detailed usage notes on the products covered by this document, refer to the relevant sections of the document as well as any technical updates that have been issued for the products.

1. Handling of Unused Pins

Handle unused pins in accord with the directions given under Handling of Unused Pins in the manual.

The input pins of CMOS products are generally in the high-impedance state. In operation with an unused pin in the open-circuit state, extra electromagnetic noise is induced in the vicinity of LSI, an associated shoot-through current flows internally, and malfunctions occur due to the false recognition of the pin state as an input signal become possible. Unused pins should be handled as described under Handling of Unused Pins in the manual.

2. Processing at Power-on

The state of the product is undefined at the moment when power is supplied.

- The states of internal circuits in the LSI are indeterminate and the states of register settings and pins are undefined at the moment when power is supplied.
 In a finished product where the reset signal is applied to the external reset pin, the states of pins are not guaranteed from the moment when power is supplied until the reset process is completed. In a similar way, the states of pins in a product that is reset by an on-chip power-on reset function are not guaranteed from the moment when power is supplied until the power reaches the level at which resetting has been specified.
- 3. Prohibition of Access to Reserved Addresses

Access to reserved addresses is prohibited.

The reserved addresses are provided for the possible future expansion of functions. Do not access
these addresses; the correct operation of LSI is not guaranteed if they are accessed.

4. Clock Signals

After applying a reset, only release the reset line after the operating clock signal has become stable. When switching the clock signal during program execution, wait until the target clock signal has stabilized.

— When the clock signal is generated with an external resonator (or from an external oscillator) during a reset, ensure that the reset line is only released after full stabilization of the clock signal. Moreover, when switching to a clock signal produced with an external resonator (or by an external oscillator) while program execution is in progress, wait until the target clock signal is stable.

5. Differences between Products

Before changing from one product to another, i.e. to a product with a different part number, confirm that the change will not lead to problems.

The characteristics of an MPU or MCU in the same group but having a different part number may differ in terms of the internal memory capacity, layout pattern, and other factors, which can affect the ranges of electrical characteristics, such as characteristic values, operating margins, immunity to noise, and amount of radiated noise. When changing to a product with a different part number, implement a system-evaluation test for the given product.

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