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.

Target Device
RX63N

Development environment
IDE: e² studio v3.0.1
Compiler: Renesas RXC v2.01.00
Hardware: Renesas Starter Kit for RX63N-256K

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1. **Installation**

This section assumes that e² studio and the Renesas RXC toolchain are already installed.

Create a new folder, for example ‘C:\Renesas\Workspace\RSK\RSKRX63N’. Copy the application note zip package ‘an_r01an2507eg0100_rx63n_rsk.zip’ downloaded from the website to this folder.

2. **Creating the Project Workspace**

Open e² studio by clicking the Windows Start button, select All Programs > Renesas Electronics e2 studio > Renesas e2 studio.

Select <OK>

In the ‘Toolchain Registry’ dialog select the ‘Renesas Toolchains’ and ‘RXC v2.01.00’ checkboxes. Click <Register>.
The ‘Information’ dialog below appears. Click <OK>.

On the ‘Welcome’ screen select the ‘Go to the Workbench’ icon as shown below.
1. Right click in the project explorer window and click <Import…>
2. The ‘Import - Select’ dialog will now appear. Expand the “General” folder icon, and select “Existing Projects into Workspace”, then click ‘Next’.
3. The ‘Import – Import Projects’ dialog will now appear. Select ‘Select archive file’, click the <Browse> button and locate the folder created earlier ‘C:\Renesas\Workspace\RSK\RSKRX63N’. Click <Finish> to import the project.

4. If prompted select the checkbox to trust certificates;
3. Opening Sample Code and Source Files

Once imported into e² studio select a project from the project list in the “Project Explorer”. Click the arrow next to it to expand the folder contents.

Clicking the arrow next to the ‘src’ folder will show the source files.

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.c”. This source file will include the C function main() plus a functional description of the sample.
5. **Website and Support**

Renesas Electronics Website  

Inquiries  
[http://www.renesas.com/contact/](http://www.renesas.com/contact/)

Support  
[http://www.renesas.com/rskrx64m](http://www.renesas.com/rskrx64m)

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## Revision History

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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 accordance 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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