# Quick Start for RX62N



# 1. Installation

### Do not connect the E1 debugger module until the software support has been installed.

- 1. Insert the CD into your computer's CD-ROM drive. The CD should automatically run the installation program. If the installer does not start, browse to the CD root folder and double click on 'setup.exe'.
- 2. Windows<sup>™</sup> Vista/7 users may see "User Account Control" dialog box. If applicable, enter the administrator password and click <OK>.
- 3. The installer will ask you which language is to be used, please choose the appropriate one and click <OK>.
- 4. On the first screen of the installer proper, click <Next>.
- 5. The License Agreement will be shown, read and click <Yes>.
- 6. The next screen asks you to pick the world region please select and click <Next>.
- 7. The destination folders are specified on the next screens. It is recommended to accept the default settings. Click <Next> to continue.
- 8. Click <Next> on all screens until the Installation process commences.

Note: The Windows driver signing dialog may be displayed. Please accept the driver to continue.

9. After the completion of successful installation, click <Finish>.

# 2. Connection

- 10. Fit the LCD module to the connector marked 'LCD' on the RSK. Ensure all the pins of the connector are correctly inserted in the socket.
- 11. Connect the E1 debugger module to the connector marked 'E1' on the RSK using the ribbon cable.
- 12. Connect the E1 debugger module to a spare USB port of your PC. The green 'ACT' LED on the E1 debugger will flash.
- 13. The 'Found New Hardware' Wizard will appear. Please follow the steps below to install the drivers. Note that, administrator privileges are required for a Windows<sup>™</sup> XP/Vista/7 machine.

a.

## Windows™ XP

- Select option 'No, not this time' in "Found New Hardware" Wizard dialog, and click <Next> button.
- Windows<sup>™</sup> Vista / Windows<sup>™</sup> 7 "Device driver software installed successfully" pop-up will appear in the Windows toolbar and

installation will complete.

- b. Verify the "Recommended" option is selected and click <Next>.
- c. Click <Finish> to close the wizard.

Note: The Windows driver signing dialog may be displayed. Please accept the driver to continue.

14. The green 'ACT' LED on the E1 debugger will illuminate.

# 3. HEW Workspace

HEW integrates various tools such as compiler, assembler, debugger and editor into a common graphical user interface. To learn more on how to use HEW, open the HEW manual installed on your computer (Start Menu > All Programs > Renesas > High-performance Embedded Workshop > Manual Navigator)

- 15. Launch HEW from the Start Menu. (Start Menu > All Programs > Renesas > High-performance Embedded Workshop).
- 16. In the "Welcome" dialog box: Verify "Create New Workspace" is selected. Click <OK>
- 17. In the "New Project Workspace" dialog box: Set the "CPU Family" to "RX", and verify the "Tool chain" is set to "Renesas RX Standard". Select "RSK+RX62N" from the left hand pane.
- 18. Enter a name for the workspace. The project name will be automatically completed with the Workspace name. You can change this name to 'Tutorial' if required. Click <OK>.
- 19. On the "RSK+RX62N Step 1" window: Select "Tutorial" and click <Next>.
- 20. On the "RSK+RX62N Step 2" window: Click <Finish>.
- 21. On the Project Generator Information window: Click <OK>.

The project that is created has two configurations. The 'Release' configuration compiles the project without any debugger support and can be used for the final release code version. The 'Debug' configuration can be used to debug the user application.

- 22. Select the 'Debug' build configuration in the left hand drop down list on the toolbar.
- 23. Click on the 'Build' icon to compile, assemble and link the project.

# 4. Programming and Debug

24. Ensure that 'SessionRX600\_E1\_E20\_SYSTEM' session in the right hand drop down list on the toolbar is selected.



26. Click the <Connect> button on the 'Debug' toolbar.



Debug

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essionRX600 E1 E20

- 27. Select the correct MCU Group type (RX62N Group illustrated).
- 28. Select the correct device type (R5F562N8 as illustrated).
- 29. Select "Debugging Mode".

30. Important: Ensure J10 and J11 are open to configure the RSK+ to use the supplied 12V power supply. Failure to do so could result in damage to the RSK+.

- 31. Connect external power supply to RSK board (12 Volts, centre positive) at PWR connector.
- 32. In the next dialog box 'Configuration Properties' ensure that "Single-chip mode" is set and click <OK>.

#### First use of the F1 module

- 33. The 'Please choose driver' dialog will be shown. Click <OK>.
- 34. The 'Driver Details' dialog will be shown, please select "Renesas E-Series USB Driver" as illustrated. The 'Interface' and 'Channel' items will be automatically populated. Click <Close>.



- The Firmware setup dialog will be shown warning you not to 35. disconnect the USB cable until the firmware download is complete. Click <OK>.
- The firmware will be downloaded to the E1 module; this will take a few moments. 36.

#### Please do not disconnect the E1 from the host during download, doing so is likely to damage the E1 module.

37. The flash memory write program is then downloaded to the microcontroller. The Output window in HEW will state 'Connected'.



38. Right click on the download module listed in the left hand pane and select "Download". The code will be downloaded to the microcontroller.



39. Click the <Reset – Go> button. You will see the LEDs flash on the board. Pressing any of the switches on the RSK will allow you to control the rate of flashing using the Analog Adjust control

STOP Click the <Stop> button. 40 The code will stop and the source code will be opened at the current program counter.

# 5. MAC Address

Before running starting any Ethernet demonstration sample code, refer to section 5.9 of the RSK+RX62N 41. User Manual to configure the MAC address.

# 6. Next Step

After you have completed this quick start procedure, please review the tutorial code and sample code that came with the kit. You can add projects to the current workspace by selecting (Project > Insert Project) from the main menu. The tutorials will help you understand the device and development process using Renesas Development Tools.

The Hardware manual supplied with this RSK is current at the time of publication. Please check for any updates to the device manual from the Renesas internet site at: www.renesas.com/rskrx62n

## 7. Renesas RX Compiler

The version of the compiler provided with this RSK is fully functional but time limited. You have 60 days to evaluate the full product before the compiler will limit the code linker to 128k bytes. Full licensed RX compiler versions are available from your Renesas supplier.

## 8. Support

Online technical support and information is available at: www.renesas.com/rskrx62n **Technical Contact Details** 

America:	techsupport.america@renesas.com
Europe:	tools.support.eu@renesas.com
Japan:	csc@renesas.com

Note on Autoupdate: The Autoupdater is configured to automatically add itself to the Startup folder in the Windows Start Menu and use the registry defaults for access to the web. After restarting the machine the Icon will appear in the System Tray next to the clock. To change the settings or access Autoupdate, simply right-click on the icon and use the menu that appears.

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