

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'.
- WindowsTM7 / Vista 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, 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 your region and click <Next>.
- The destination folders are shown on the next screen. It is recommended to accept the default settings. Click <Next> to begin copying the program files into the destination folders.

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

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

2. Connection

- 9. 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.
- 10. Connect the E1 debugger module to the connector marked 'E1' on the RSK using the ribbon cable.
- 11. Connect the E1 debugger module to a spare USB port of your PC. The green 'ACT' LED on the E1 debugger will flash.
- 12. 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™ XP/Vista machine.

Windows™XP

- Select option 'No, not this time' in "Found New Hardware" Wizard dialog, and click <Next> button.
- b. Verify the "Recommended" option is selected and click <Next>.
- c. If using Windows[™] XP, go to step 'e'; otherwise, click <Next>.
- d. Click <Next> to install the driver.
- e. Click <Finish> to close the wizard.
- 13. 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)

- 14. Launch HEW from the Start Menu. (Start Menu > All Programs > Renesas > High-performance Embedded Workshop).
- 15. In the "Welcome" dialog box: Verify "Create New Workspace" is selected. Click <OK>
- 16. 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 "RSKRX62G" from the left hand pane.
- 17. 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>.
- 18. On the "RSKRX62G Step 1" window: Select "Tutorial" and click <Next>.
- 19. On the "RSKRX62G- Step 2" window: Click <Finish>.
- 20. 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.

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



Windows™ Vista / Windows 7

 a. "Device driver software installed successfully" pop-up will appear in the Windows toolbar and installation will complete.

4. Programming and Debug

23. Ensure that 'SessionRX_E1_E20_SYSTEM' session in the right hand drop down list on the tool bar is selected.

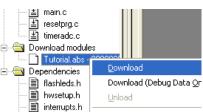
Debug 💽 SessionRX_E1_E20_SY: 🗸 🧎

- 24. Click the <Connect> button on the 'Debug' toolbar.
- 25. Select the correct MCU Group type (RX62G Group as illustrated).
- 26. Select the correct device type (R5F562GA as illustrated).
- 27. Select "Debugging Mode".
- 28. Select "Power target from emulator" with 5.0V as the power supply and click <OK>.
- 29. In the next dialog box 'Configuration Properties' ensure that "Single-chip mode" is set.
- 30. Click <OK>.

Device 💽	Configuration Properties
MCU group: RX62G Group	Internal flash memory overwrite External flash memory MCU System
Device: R55562GA Mode [™] Debugging mode [™] Hot plug in Check the following and press OK button: • the emulator is not connected with the user system. • the emulator serial No. is displayed. [°] Writing the on-chip flash memory mode [™] Execute the user program after ending the	Operating mode Mode: Single-chip mode Endian:
debugger. Power supply Image: supply image: supp image: sup image: sup image: supply image: supply image: supp im	Writing internal flash memory by the emulator debugger Allow to change the clock source on writing internal flash memory. Work RAM start address 1000
Senal No.: JET. 2000/2002	(0x400 bytes used): TUUU OK Cancel Do not show this dialog box again.

- 31. The flash memory write program is then downloaded to the microcontroller. The Output window in HEW will state 'Connected'.
- 32. Right click on the download module listed in the left hand pane and select "Download". The code will be downloaded to the microcontroller.

33. 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.



Click the <Stop> button.

The code will stop and the source code will be opened at the current program counter.

5. Next Step

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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/rskrx62g

6. 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.

7. Support

Online technical support and information is available at: <u>http://www.renesas.com/rskrx62g</u> Technical Contact Details

America:	techsupport.america@renesas.com
Europe:	http://www.renesas.eu/ibg-kitsupport
Japan:	<u>csc@renesas.com</u>

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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