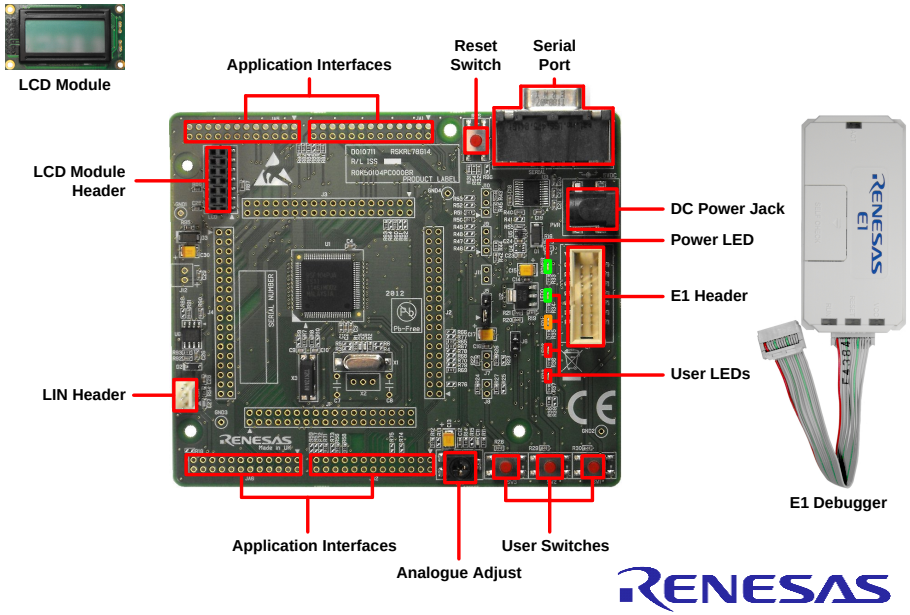
Quick Start Renesas Starter Kit for RL78/G14



NOTE: This Quick Start Guide covers installation of the e^{2}studio CD.

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™ 7/Vista users may see "User Account Control" dialog boxes. If applicable, enter the administrator password and click <OK>.
3. Follow the on screen instructions to install the RSK software.

Note: When prompted to specify a different location for installing any of the tools, DO NOT change the default location; click <Next>. The Windows Security driver signing dialogs may be displayed. Please accept the driver to continue.

2. Connection

4. 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.
5. Connect the E1 debugger module to the connector marked 'E1' on the RSK using the ribbon cable.
6. Connect the E1 debugger module to a spare USB port of your PC. The green 'ACT' LED on the E1 debugger will flash.
7. 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/7 machine.

Windows™ XP	Windows™ 7/Vista
a. Select option 'No, not this time' in "Found New Hardware" Wizard dialog, and click <Next> button.	a. "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. 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.	

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

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

3. Importing Sample Code into e^{2}studio

e^{2}studio integrates various tools such as compiler, assembler, debugger and editor into a common graphical user interface. Start e^{2}studio from the start menu:

Start > All Programs > Renesas Electronics e2studio > Renesas e2studio

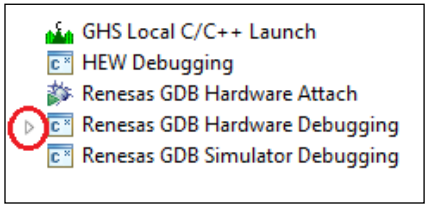
9. In the 'Select a workspace' folder that appears, browse a suitable location and folder name to save your new workspace. A Windows administrator dialog that may appear stating that administrator privileges are required, click <Yes> to continue.
10. In the e^{2}studio welcome screen, click the 'Go to workbench' arrow icon, on the far right.
11. Right click in the project explorer window, and select 'Import'.
12. In the import source type, select General > Existing Projects into Workspace, and click 'Next'.
13. Click the 'Browse' button, and locate the following directory: C:\Workspace\RSK\RSKRL78G14
14. Ensure the 'Copy projects into workspace' option is ticked, then click 'Finish'.

4. Programming and Debug

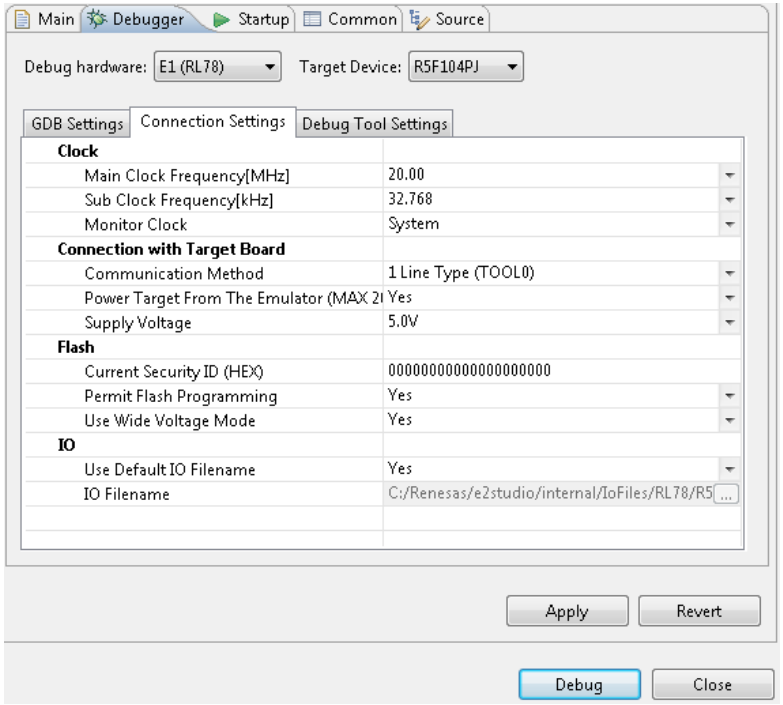
15. Select a sample code by left clicking on it (it is recommened to start with the tutorial project), then click the arrow next to build button (hammer icon), and select 'HardwareDebug' from the drop down menu.

16. e²studio will now build the project. Once this is complete, debugging can be started by clicking the arrow next to debug button (bug icon), and selecting 'Debug Configurations'.

17. Click the arrow next to the entry 'Renesas GDB Hardware Debugging' to expand the list. Select the configuration entry which matches the current project.



18. Click the 'Debugger' tab, then the 'Connection Settings' secondary tab. Review the settings listed in the screenshot below.
19. If using an external power supply, ensure that the "Power Target from the Emulator" option is set to No. (See the RSKRL78G14 User Manual for power supply options and board settings). The board is configured by default to run from emulator power.



20. Click the 'Debug' button to download the code to the target, and begin debugging.
21. e²studio may ask you to change to the 'Renesas Debug Perspective', click yes.
22. Once the code has been downloaded, click the 'Resume' button to run the code up to the main function. Click 'Resume' again to run the target through the rest of the code.

5. Next Step

After you have completed this quick start procedure, please review the tutorial code and sample code that came with the kit. 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/rskrl78g14

To learn more on how to use e²studio, open the e2studio help files from the menu bar by clicking Help > Help Contents whilst the program is open.

6. Renesas GNURL78 Compiler

The version of the compiler provided with this RSK is fully functional with no time restrictions but requires registration before it can be used.

7. Support

Online technical support and information is available at: www.renesas.com

Technical Contact Details

America: techsupport.america@renesas.com
Europe: www.renesas.eu/ibg_kitsupport
Japan: csc@renesas.com
GNURL78 Compiler Support: www.kpitgnutools.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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