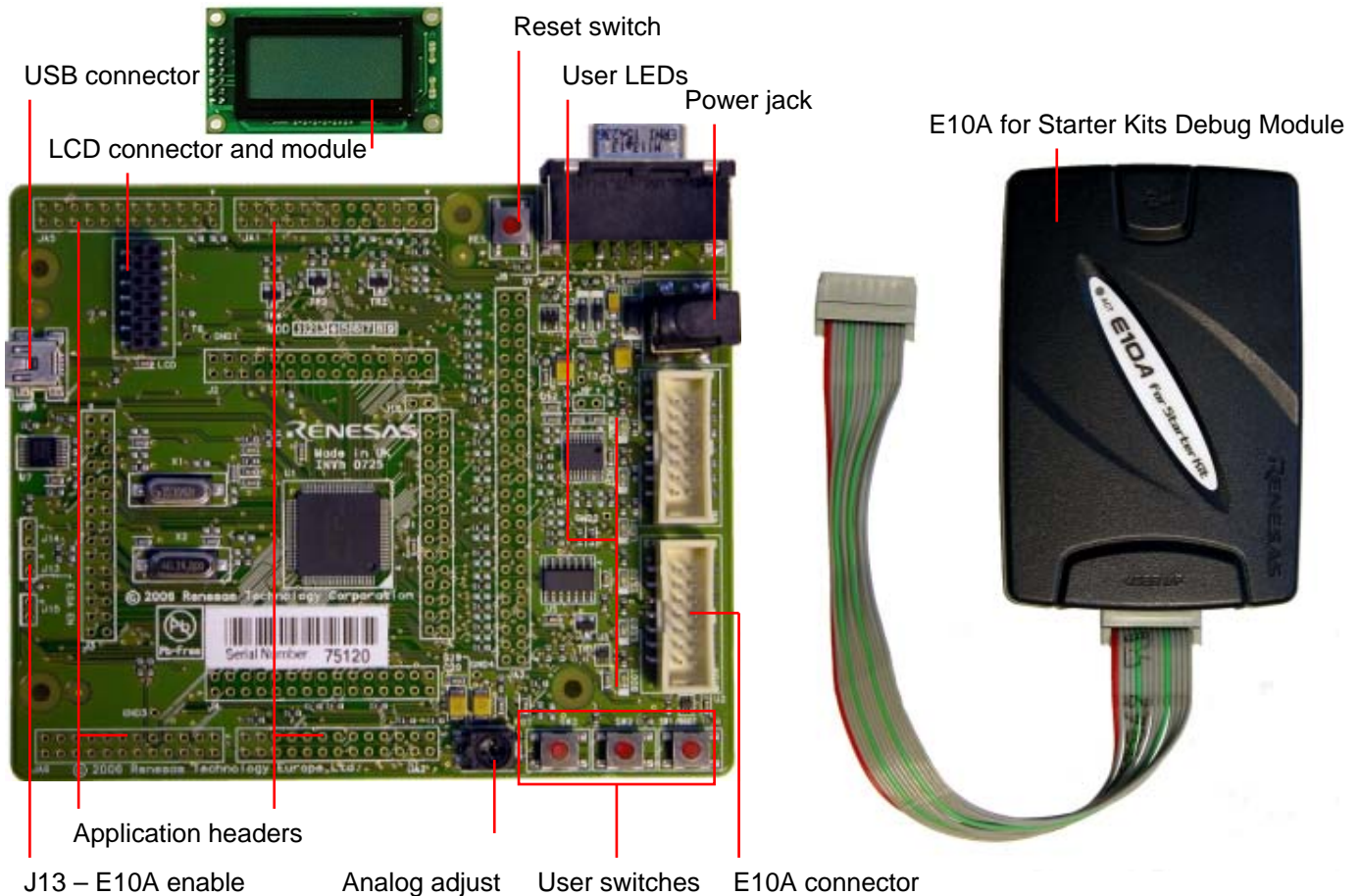


Quick Start

Renesas Starter Kit for H8S/2215R



1. Installation

Do not connect the E10A 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. The installer will ask you which language is to be used, please choose the appropriate one and click <OK>.
3. On the first screen of the installer proper, click <Next>.
4. The License Agreement will be shown, read and click <Yes>.
5. The next screen asks you to pick the world region – please select and click <Next>.
6. Select the RSK you wish to install and click <Next> to continue.
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.
9. After the installation the machine's site code will be shown, this is not important at this stage, click <Next> then <Finish>.
10. The Auto-update dialog box will be launched. Configure the Auto-update settings dialog to allow your installation to be checked for updates.

2. Connection

11. Ensure that "E10A enable" jumper (J13) is fitted.
12. Connect the E10A module to the 'E10A' connector on the RSK using the ribbon cable.
13. Plug in the LCD module to 'LCD' connector on the RSK ensuring that the pin 1 designation corresponds to the marking on the RSK.
14. Connect the 5V power supply unit to the power jack on the RSK board and apply power. The green 'Power' LED located on the RSK will illuminate.
15. Connect the E10A module to a spare USB port on your PC. The green 'ACT' LED on the RSK will illuminate.
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™ 2000/XP machine. If offered, do not use the Windows Update option to locate the driver.
16. Verify the "Recommended" option (Renesas E-Series USB Driver) is selected and click <Next>.
17. If using Windows XP, skip to step 19; otherwise click <Next>.
18. Click <Next> to install the driver.
19. Click <Finish> to close the wizard.

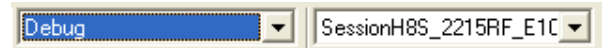
Note: The Windows driver signing dialog may be displayed. Please accept the driver to continue.

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).

20. Launch HEW from the Start Menu (Start Menu > All Programs > Renesas > High-performance Embedded Workshop).
21. In the "Welcome" dialog box: Verify "Create New Workspace" is selected. Click <OK>
22. In the "New Project Workspace" dialog box: Verify the "CPU Family" is set "H8S,H8/300". Select "E10A_RSKH8S2215R" from the left hand pane.
23. 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>.
24. On the "E10A_RSKH8S2215R – Step 1" window: Select "Tutorial" and click <Next>.
25. On the "E10A_RSKH8S2215R – Step 2" window: Click <Finish>.
26. 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.

27. Select the 'Debug' build configuration in the left hand drop down list on the tool bar.



28. Click on the 'Build' icon to compile, assemble and link the project.



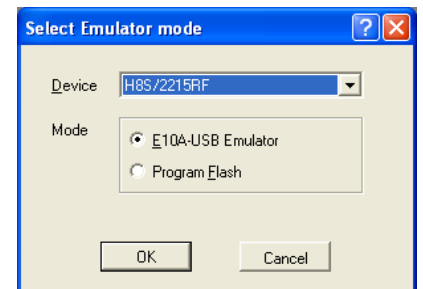
4. Programming and Debug

29. Select the "SessionH8S_2215RF_E10A_USB_SYSTEM" session in the right hand drop down list on the tool bar. The Debug toolbar connection button should be active.



30. Click the <Connect> button on the debug toolbar.

31. The 'Select Emulator mode' dialog will appear. Select the device "H8S/2215RF" and the "E10A-USB Emulator" radio button and click <OK>.

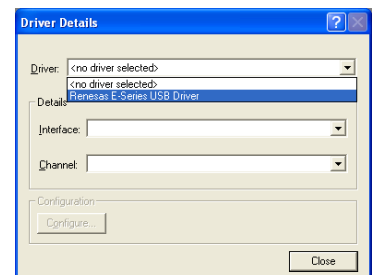


If this isn't the first time you have used the E10A module with this RSK, please skip to step 36.

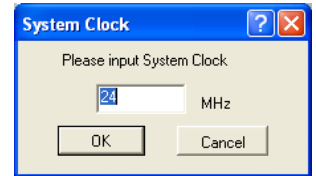
First use of the E10A module

32. The 'Please choose driver' dialog will be shown. Click <OK>
33. 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>.
34. The Firmware setup dialog will be shown warning you not to disconnect the USB cable until the firmware download is complete. Click <OK>.
35. The firmware will be downloaded to the E10A module; this will take a few moments.

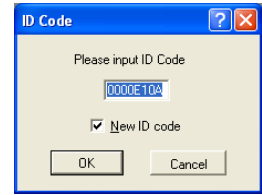
Please do not disconnect the E10A from the host during download, doing so is likely to damage the E10A module.



36. The 'System Clock' dialog will appear, enter "24" into the MHz box and click <OK>.



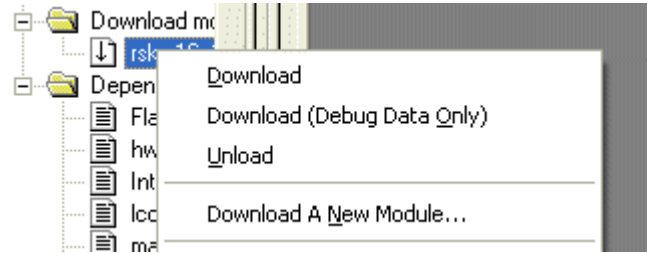
37. The 'ID code' dialog will appear, enter "0000E10A" for the ID code and check the "New ID code" tick-box and click <OK>.



38. HEW will connect to the target and show "Connected" in the 'Output' view.

39. Right click on the download module listed in the left hand pane and select 'Download'.

The code will not yet be downloaded to the microcontroller.



40. Click the 'Reset - Go' button.



41. The code will now be downloaded (this will take a moment or two) and will then run. You will see the LEDs flash on the board.

42. Click the 'Stop' button.



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

5. 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/renesas_starter_kits

6. Renesas H8 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 64k bytes. Full licensed H8 compiler versions are available from your Renesas supplier.

7. Support

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

Technical Contact Details

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