
Renesas Synergy™ Platform

PE-HMI1 v.2.0 Out-of-Box Demo Programming Guidelines

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Introduction

This guide covers how to reload the out-of-box demo onto the PE-HMI kit. To follow the guide, a full JTAG software installation is not needed, as a copy of a supported version is included.

Target Device

PE-HMI v.2.0

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1. Prerequisites

1.1 Required software and tools

Minimum PC Requirements: Microsoft® Windows® 7 with Intel® Core™ family processor running at 2.0 GHz or higher (or equivalent processor), 8 GB memory, 250 GB hard disk or SSD, USB 2.0, Connection to the Internet.

Install e² studio v5.0.0.043 or later. e² studio v5.0.0.043 is available on <https://synergygallery.renesas.com/>.

2. PE-HMI1 Kit

This programming guide applies to version 2.0 of the PE-HMI1 Kit. The out-of-box demo that you load may be a newer and improved version compared to the factory-installed demo.

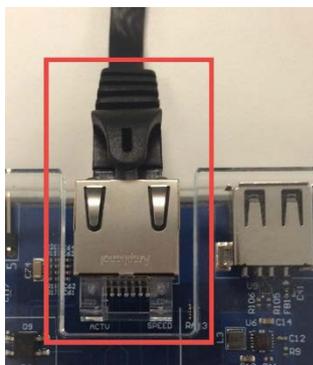
3. Reload the out-of-box demo

Follow these steps to reload the out-of-box demo into the development kit.

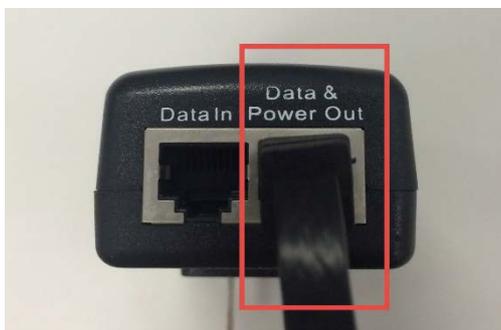
1. Connect the J-link Lite for Cortex M (ARM®), supplied with the kit, to connector J12 on the board as shown below.



2. Connect the J-link Lite for Cortex M to the PC with the supplied USB cable. The LED on the J-link Lite for Cortex M illuminates solid green if communicating properly with the PC. If the LED is blinking, check the connection to the PC and make sure the drivers are loaded.
3. Connect the Ethernet cable provided with the PE-HMI1 Kit to the Ethernet port on the PE-HMI1 board.

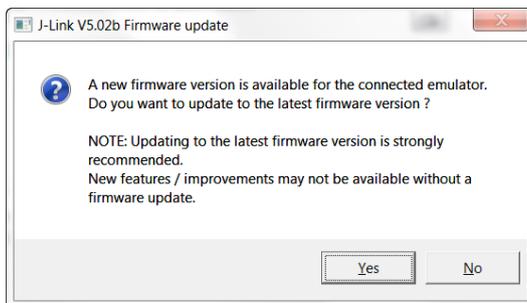


4. Connect the other end of the Ethernet cable to the Power over Ethernet (PoE) supply and plug in the power supply.

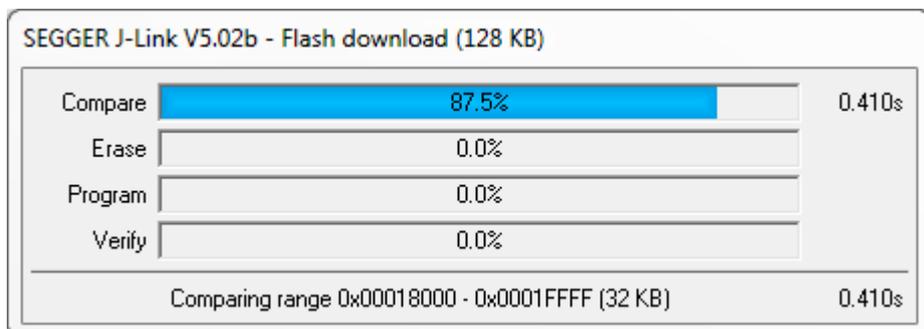


5. Back in Windows Explorer, double click on “Program PE-HMI1 OOB Demo.bat” to program the PE-HMI1 with JLink.

NOTE: If the update J-Link firmware dialog box is displayed, we highly recommend that you click **Yes**. Programming failure will likely occur if the **Yes** button is not selected.



The script runs similar to the below picture: (S7G2 programming shown here)



JLink is programming the PE-HMI1 Kit with the Out-Of-Box Demo

At this point, the PE-HMI1 has been programmed with the Out-Of-Box demo application.

4. Out-of-box demo notes

- 1) The LCD displays the image below when the Weather Pane application starts.



- 2) Press different days of the week to see the effects of graphics processing such as alpha-blending in action.

5. Version information for the out-of-box demo

- PE-HMI1 V2.0
- Out-Of-Box Demo V2.0

Website and Support

Support: <https://synergygallery.renesas.com/support>

Technical Contact Details:

- America: https://renesas.zendesk.com/anonymous_requests/new
- Europe: <https://www.renesas.com/en-eu/support/contact.html>
- Japan: <https://www.renesas.com/ja-jp/support/contact.html>

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Revision History

Rev.	Date	Description	
		Page	Summary
1.0	Jan 5, 2016	-	Initial version
1.10	Aug 22, 2016		Added specific details for SSP 1.1.0 and e ² studio.
1.11	Nov 18, 2016	All	Minor formatting changes.

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