My Renesas Press Center Events Careers Investor Relations Contact Us



日本語 한국어 简体中文 繁體中文 Login

RENESAS

Search by keyword or Part Name

Other Searches

Applications

Development Tools

Buy/Sample

About Renesas

Special Offers

Home

Products

Software and Tools

Starter Kits and Platforms

Renesas Demonstration Kits

Renesas Synergy™ PE-HMI1 Product Example

Share:



Provide feedback Print this page

Products

Software and Tools

Starter Kits and Platforms

Renesas Demonstration Kits

Renesas Synergy™ PE-**HMI1 Product Example**

V850FS/Jx3-L Low Power Demonstrator

Embedded GUI Solution Kit

Low Power Display Solution

Renesas Demonstration Kit for SH7216

Embedded GUI and Communications Solution Kit

High Resolution Embedded GUI Solution Kit for RZ/A1H

YRDKRL78F14 (For RL78/F14)

YRDKRL78G13 (For RL78/G13)

YRDKRL78G14 (For RL78/G14)

YRDKRX62N (For RX62N) YRDKRX63N (For RX63N)

Overview



Product Overview

The PE-HMI1 Product Example offers a unique perspective into a "design instance" of a particular end product, in this case a connected Human Machine Interface, closely representing how the actual end-product would be designed using the Synergy Platform. As a time saver, portions of this PE design can be re-used in actual end-product, or the entire PE design can be leveraged by using the documented design journey, included to describe the decision process made by the original PE designers, to modify the PE design to meet particular needs. Synergy PE design journeys document the methodology of how and why design choices were made and the reasoning behind the selection of components and methodologies. Synergy PEs offer complete and optimized hardware design with full documentation, a bill of materials (BOM) and Gerber files for PC board layout.

Designed to be used in a variety of connected graphical user interface (GUI) panel applications, the PE-HMI1 features a brilliant 7-inch WVGA color TFT display with capacitive touch screen and a CMOS imager that takes advantage of graphics capability provided by the Synergy S7 Series MCU from the S7G2 group. This kit can be used for development of access control, home automation, building automation panels, and other connected human interface applications

The kit provides access, with no fee, to the e² studio Integrated Solution Development Environment (ISDE) for Synergy MCU device and software configuration plus extensive code development and debugging using the Renesas Synergy Software Package (SSP). Also included is a GCC C-compiler at no fee. To simplify development, all of the basic software components for graphics plus Ethernet, USB, WiFi, Bluetooth Classic, Bluetooth Low Energy and other communication protocols are included.

This kit supports GUI development on the WVGA color TFT display by providing access, with no fee, to the GUIXTM Studio desktop design tool to create UI graphics and flow before compiling to the MCU target.

Expansion capability is designed into this kit with industry-standard Pmod™ connectors for attaching a variety of multi-function boards in the market, or for connecting custom boards.

Power is supplied by Power over Ethernet (PoE) and the adapter is included in the kit. Alternatively the kit can be powered through a standard 5V adapter.

The PE-HMI1 also includes an external J-Link lite debugger.

* In order to activate and register the software components, this product needs Internet access.

Configuration

Main board with 7" capacitive touch, WVGA color display

Connection cables USB and Ethernet

Power over Ethernet connector

Adapter cable for external 5V power supply

Plug-in industrial connector for RS232/485 & CAN (green connector)

Quickstart guide with instructions how to download latest software and documentation

PC System Requirements

To use the e² studio ISDE, ensure that your PC meets the following minimum requirements:

Microsoft® Windows® 7 with Intel® CoreTM family processor running at 2.0 GHz or higher (or equivalent processor)

Memory: 8 GB minimum

Minimum 250 GB hard disk minimum

USB 2.0

Connection to the Internet

Videos

Renesas Synergy™ PE-HMI1 Product Example | Renesas Electronics America





FDI Reviews the Renesas Synergy PE-HMI1 Kit Hardware

FDI Reviews the Renesas Synergy PE-HMI1 Software and Programming

Other Renesas Synergy Kits and Solutions Videos

Ordering Information

Product name	Part Number (Ordering Number)	Availability
Product Example PE-HMI1	YSPEHMI1S20WS2	Available

Back To Top

© 2010-2015 Renesas Electronics Corporation. All rights reserved.

Mobile App World Renesas Legal Privacy RSS

Twitter Facebook Google Plus

YouTube Sitemap