

Renesas Synergy™ Development Kit DK-S7G2

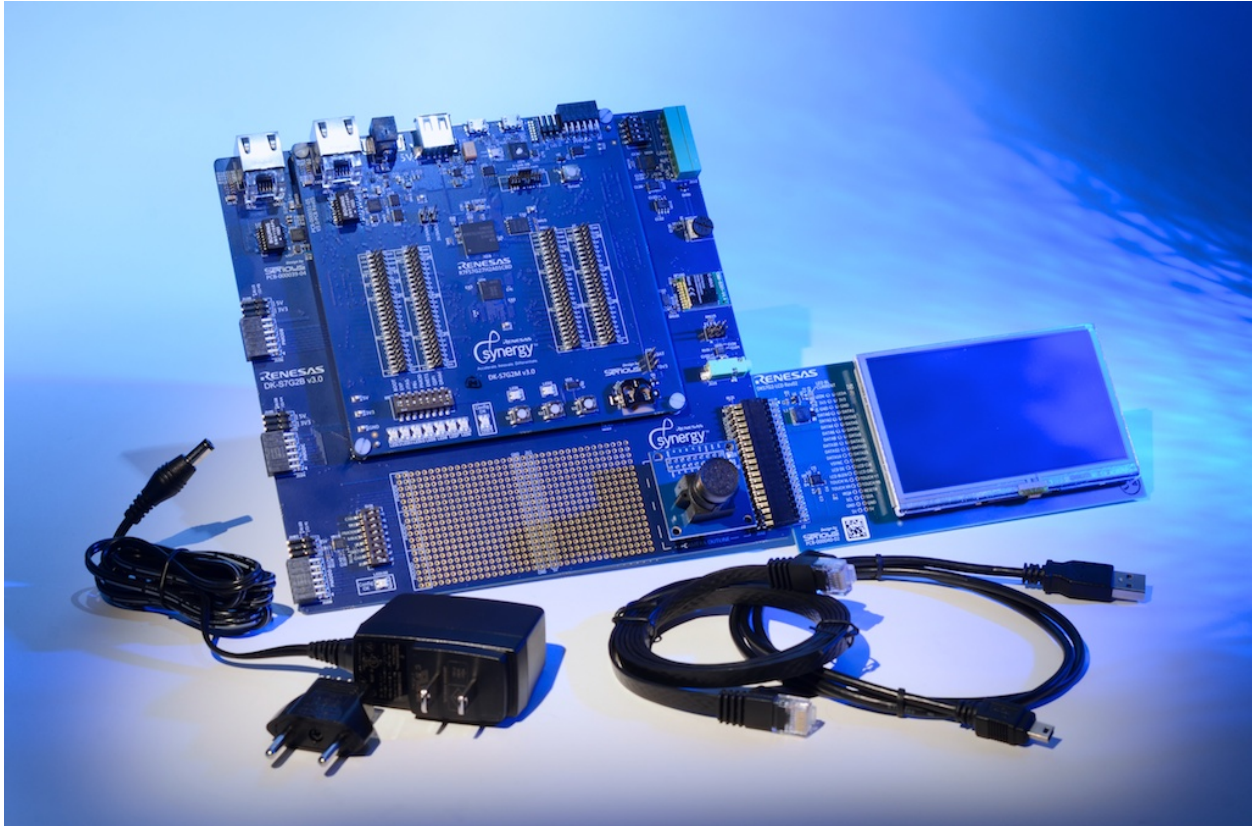
Product Overview

The DK-S7G2 development kit provides a complete basis for hardware and software development using the Synergy Platform. The kit is host to a Synergy S7 series MCU from the S7G2 group - today's flagship Synergy MCU device. The DK-S7G2 kit was designed from the beginning with ease of use in mind having automated blocks of signal routing on-board including a quick check through LEDs if routing is correct for the desired macro functions, providing error-proof configuration. DK-S7G2 kits are comprised of two circuit boards, the upper board hosting the MCU and the lower board for signal expansion and to implement special functions. This partitioning is very convenient to access all the MCU functions and pins, plus the lower board can be replaced with your own custom board for rapidly prototyping your specific end-product. Expansion capability is designed into this kit with many connection points plus industry-standard Pmod™ connectors for attaching a variety of multi-function boards in the market, or for connecting custom boards.

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.

The S7G2 MCU has inherent features to support vibrant Graphical User Interface (GUI) applications and this kits supports GUI development with a WQVGA color LCD module with touchscreen, plus access to the GUIX™ Studio desktop design tool to create UI graphics and flow before compiling to the MCU target.

Full access to S7G2 MCU connectivity features are supported such as dual Ethernet, USB-FS Host and Device, CAN and more. Multimedia interfaces are also supported such as VGA camera and a full-size SD card.



All Renesas Synergy development kits come with an industry standard high speed Segger J-Link OB debugger as well as an integrated Bluetooth[®] low energy (BLE) module.

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

Configuration

CPU board + Breakout board with I/O extensions

Multi region 5V power supply

Connection cables USB and Ethernet

VGA camera module

Detachable 4.3" resistive touch WQVGA color LCD display

Plug-in industrial connector for RS232/485 and 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® Core™ family processor running at 2.0 GHz or higher (or equivalent processor)
- Memory: 8 GB minimum
- Minimum 250 GB hard disk minimum
- Connection to the Internet

Ordering Information

Product Name	Part Number	Availability
Development Kit DK-S7G2	YSDKS7G2S30WS2	Now