RENESAS Tool News

Clock-Synchronous Serial-Communication Device Driver Published for Using Serial Array Unit (SAU) of MCUs of RL78/G14 Group in CSI Mode

We have published the clock-synchronous serial-communication device driver for MCUs of the RL78/G14 group. This product, supplied free of charge, allows you to use the serial array unit (SAU) of the MCU in the CSI mode.

1. Overview

This device driver can establish 3-wired clock-synchronous serial communications between the master device, an MCU of the RL78/G14 group, and the slave device connected to the MCU's serial array unit (SAU) in the CSI mode. For how to obtain the driver, see Section 2.

As the slave device, any of the following is used:
  - Renesas Electronics R1EX25xxx or HN58X25xxx series SPI Serial EEPROM
    For details of these, see:
      https://www.renesas.com/products/memory/eeprom.html
  - Micron Technology M25P series Serial Flash memory
  - Micron Technology M45PE series Serial Flash memory
You can download the control middleware programs for the above slave devices free of charge from our Web sites. For details, see Section 2.

2. Obtaining Driver and Control Middleware Programs

To obtain the driver and the control middleware programs, follow these steps:
(1) Open either of the following Web pages:
    https://www.renesas.com/a_eeprom_driver_app_notes
      (Page for the serial EEPROM drivers)
    https://www.renesas.com/a_serial_flash_driver_app_notes
      (Page for the serial flash memory drivers)
  You see the list of titles of Application Notes.

(2) Search for the application note of the product you want in the list.

The names of the products and their application notes are as follows:

- The clock-synchronous serial-communication device driver for the
  RL78/G14 group that uses the MCU's serial array unit (SAU)in the
  CSI mode:
   Single Master Devices with a Serial Array Unit (SAU) in CSI Mode
      "RL78/G14 Clock Synchronous Single Master Control Software
       Using CSI Mode of Serial Array Unit"
- Renesas Electronics R1EX25xxx and HN58X25xxx Series Serial EEPROM
  Control Middleware
      "Renesas R1EX25xxx Series Serial EEPROM Control Software"
- Micron Technology M25P Series Serial Flash memory Control
  Middleware
      "Micron Technology M25P Series Serial Flash memory
       Control Software"
- Micron Technology M45PE Series Serial Flash memory Control
  Middleware
      "Micron Technology M45PE Series Serial Flash memory
       Control Software"

(3) Click the Sample Program link in the Project Files column on the
    right of the above title.
(4) Read through AGREEMENT that appears; then click Agree.
(5) From the Download page, download the product.