RENESAS Tool News

FAT File System Library M3S-TFAT-Tiny for the SH-2A V.2.00 Release 00 Published

We have published the FAT file system library M3S-TFAT-Tiny for the SH-2A V.2.00 Release 00, which we supply free of charge.
For details of the M3S-TFAT-Tiny series, go to:
https://www.renesas.com/mw/tfat
The above URL is one of our global sites.

1. Overview

This M3S-TFAT-Tiny product is a program for FAT file systems, which consumes only a small amount of memory. In all the systems designed with the SH-2A CPU-cored MCUs, SH family, it can store such data as measurement and history, and reprogram on-chip ROM via memory cards. Because it communicates with the PC, you can analyze and manage the data in the library by using applications in your PC.
For how to obtain the product, see Section 4.1.

The product is used together with a memory card, and we supply the application note explaining the method of controlling memory cards and a sample program for controlling them.
For how to obtaining these, see Section 4.2.

2. Device Support

The SH-2A CPU-cored MCUs, SH family have been supported.

3. Features

(1) Compactly designed for embedded systems.
   For instance, ROM consumption is about several KB.
(2) Real-time OS unnecessary.
(3) Sample program attached.
   A sample program for using the M3S-TFAT-Tiny for the SH-2A and the program for controlling memory cards are attached to the product.

The sample program operates on the socket expansion circuit of the memory card, which is used together with the Renesas Starter Kit+ for SH7216 (Type No.: R0K572167S000BE) under the integrated development environment High-performance Embedded Workshop. M3S-TFAT-Tiny for the SH-2A includes the diagram of a socket expansion circuit of memory cards for reference.

4. Obtaining Product and Others

To obtain the product, application note, and sample program, follow the steps described below.

4.1 M3S-TFAT-Tiny for the SH-2A

(1) Visit the following Web site to open the list of Application Notes & Sample Code:

https://www.renesas.com/products/software-tools/software-os-middleware-driver/renesas-software-library/m3s-tfat-tiny.html#sampleCodes

(2) In the Document Title column, search for "SH-2A FAT File System Software M3S-TFAT-Tiny: Introduction Guide."

(3) In the same row, click the link to Program in the Project Files column.

(4) Read through AGREEMENT and click Agree.

(5) Download the sample program from the page displayed.

4.2 Application Note Explaining Method of Controlling Memory Cards and Sample Program for Controlling Them

Follow the same steps as Section 4.1: in the step (2) above, search for the application note titled with "SH7216 Group Accessing MultiMediaCard Using the Renesas Serial Peripheral Interface."