

RENESAS TOOL NEWS on March 1, 2011: 110301/tn6

## M3S-T4-Tinys (TCP/IP Protocol Stacks) for the SH, the H8S, and the M16C Family of MCUs Published

We have published the following four TCP/IP protocol stacks:

- M3S-T4-Tiny for the SH-2A V.1.03 Release 00 (specific to the SH-2A and SH2A-FPU, SH family of MCUs)
- M3S-T4-Tiny for the SH-4 V.1.03 Release 00 (specific to the SH-4, SH family of MCUs)
- M3S-T4-Tiny for the H8S Family V.1.03 Release 00 (specific to the H8S family of MCUs)
- M3S-T4-Tiny for the M16C Family V.1.03 Release 00 (specific to the M16C family of MCUs)

These products are available free of charge.

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### 1. Outline of TCP/IP Protocol Stacks

TCP/IP protocol stacks are communication protocol software libraries. By using TCP/IP protocol stacks, you can implement high-speed TCP/IP communication in Ethernet-connected networks in all the devices equipped with Renesas MCUs.

For further information, see:

<http://www.renesas.com/mw/t4>

The above URL is one of our global sites.

### 2. Overviews of the Products

#### 2.1 M3S-T4-Tiny for the SH-2A V.1.03 Release 00

The product supports the SH-2A and SH2A-FPU, SH family, and includes the following samples of software:

- A sample driver for the Ethernet controllers designed with MCUs of the SH7216 series
- A sample program running on the Renesas Starter Kit+ for SH7216 (for evaluation; optional)

For detailed information about the Renesas Starter Kit+ for SH7216, see:

The above URL is one of our global sites.

To debug the above samples of software, you need to use the E10A-USB emulator (optional).

## **2.2 M3S-T4-Tiny for the SH-4 V.1.03 Release 00**

The product supports the SH-4, SH family (only in the little-endian system), and includes the following samples of software:

- A sample driver for the LAN91C111 Ethernet controller (fabricated by SMSC)
- A sample program running on the MS104-SH4 CPU board (fabricated by Alpha Project; optional)

To debug the above sample program, you need to use the E10A-USB emulator (optional).

## **2.3 M3S-T4-Tiny for the H8S Family V.1.03 Release 00**

The product supports the MCUs of the H8S/2600 series, H8S family, and includes the following samples of software:

- A sample driver for the Ethernet controllers designed with MCUs of the H8S/2462 group, H8S/2400 series
- A sample program running on the HSB8S2462F4-SM CPU board (fabricated by Hokuto Electronics; optional)

To debug the above sample program, you need to use the E10A-USB emulator (optional).

## **2.4 M3S-T4-Tiny for the M16C Family V.1.03 Release 00**

The product supports the MCUs of the M16C family, and includes the following samples of software:

- A sample driver for the RTL8019AS Ethernet controller (fabricated by Realtek)
- A sample program running on either the HSB16C62P-100S CPU board or the M16C100Ether CPU board (both fabricated by Hokuto Electronics; optional)

To debug the above sample program, you need to use the E8a emulator (optional).

## **3. How to Obtain the Products You Want**

To obtain the product, follow these steps:

- (1) Click Application Notes and Sample Code at the upper left of the product page of M3S-T4-Tiny at:

<http://www.renesas.com/mw/t4>

The above URL is one of our global sites.

- (2) Click the "sample program" which you want in the list displayed.

(3) If you read through Agreement that appears and click Agree, the page for downloading the product is displayed.

(4) Click Download and the product will be downloaded.

#### **4. Lineup of M3S-T4-Tinys**

The M3S-T4-Tiny for the RX family is already available. For details, see:

<http://tool-support.renesas.com/eng/toolnews/110301/tn5.htm>

This Web site will be opened on March 14.

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