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# HS0005KCU01H HS0005KCU02H Test Program Manual

Renesas Microcomputer Development Environment System

HS0005TM01HE

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# Section 1 Test Program

This manual describes the troubleshooting procedure that applies the test program for the E10A-USB emulator.

# 1.1 System Setup for Executing Test Program

- (1) The following equipments are required to execute the test program. Do not connect the user system interface cable or the user system when executing the test program.
  - E10A-USB emulator
  - USB cable
  - "E10A-USB emulator software" CD-R
  - Host computer (hereafter referred to as the PC)

To begin, make sure that the emulator software and USB driver are installed in the PC. For details on installation, refer to section 3.4, Installing Emulator's Software, in the Debugger Part of the SuperH<sup>TM</sup> Family E10A-USB Emulator User's Manual.

(2) Start up the PC and connect the E10A-USB emulator to the USB connector of the PC with the attached USB cable. Note that the user interface cable must be disconnected.



Figure 1 Connection

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(3) Execute Setup.exe from the TM folder of the "E10A-USB emulator software" CD-R to start the install wizard. Follow the instructions of the installation wizard.

When Setup.exe is executed, the start-up screen displayed in figure 2 will appear. Click the "Next" button.



Figure 2 Start Setup

The screen in figure 3 shows the directory to which the E10A-USB TM will be installed. If you do not need to specify a different directory, click the "Next" button. If you specify a different directory, ensure that you have the write privilege for that directory.



Figure 3 Specify Directory



Clicking on the "Install" button starts the process of installation.



Figure 4 Start the Installation





Complete the installation process by clicking on the "Finish" button.

Figure 5 Complete the Installation

This finishes the installation. The [E10A-USB] icon added to the [Start] menu (as shown in figure 6) indicates that the installation is complete.

(4) Start up the E10A-USB TM from the [Start] menu.

My Documents My Computer	
My Network Places	
Set Program Access and Defaults Windows Catalog Windows Update	
Programs	Accessories  Accessories  E10A-USB  Games  Location: C:\E10A-USB
Search Help and Support	Startup  Startup  MSN Explorer
Log Off RSO TOOL-KAL  Turn Off Computer	<ul> <li>Outlook Express</li> <li>Remote Assistance</li> <li>Windows Media Player</li> <li>Windows Messenger</li> </ul>
🐉 Start	

Figure 6 Starting Up the Test Program

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Figure 8 shows the start-up screen of the E10A-USB TM. Before clicking on "START", check that the E10A-USB emulator switch settings are the same as those indicated on the screen.

The DIP switches are attached to the lower right of the emulator's upper-side panel as shown in figure 7. To open the sliding switch cover, slide it to the right. The state of the switches will be 1 when they are in the upper position or 0 when they are in the lower position, respectively. For details regarding the switch settings, refer to section 3.8, Setting the DIP Switches, in the Debugger Part of the SuperH<sup>TM</sup> Family E10A-USB Emulator User's Manual.



Figure 7 Switch Settings



Figure 8 Starting up the Test Program

(5) Click the "START" button appeared on the window. This starts execution of the test program showing the message "RUNNING".

F	RU	r2.0.00	NI	NG	
<b>E10</b> /	A-USB TM Ver2	0.00 LOG	QUIT	STATUS	DP

Figure 9 Running the Test Program

(6) The message "FAIL" or "PASS" will be displayed. "PASS" indicates that there is no problem with the emulator. Click the "QUIT" button to complete the test program.

	r2.0.00		SS	
10A-USB TM Ver2	.0.00			
START	LOG	QUIT	STO	P

Figure 10 "PASS" Message



## **1.2 Process when an Error Occurred**

Follow the procedure listed below if "FAIL" is displayed (i.e. an error has occurred) during execution of the test program.

(1) If "FAIL" appears during execution of the test program, the status is displayed in the lower right side of the window, as well as a separate window indicating an error message.

	r2.0.00			×
E10A-USB TM Ver2	0.00			
START	LOG	QUIT	STOP STATUS 5001	

Figure 11 "FAIL" Message





Figure 12 Error Message (Example)

- (2) Click the "LOG" button to create a log file.
- (3) Go to the E10A-USB TM installation directory and then find the "TM\_LOG.TXT" file. Send the file to the website of your region by e-mail.

The e-mail text should contain information such as your contact address, MCU in use, and details on the error that has occurred.



(4) If the message "FLASH MEMORY TEST is failed" is displayed and the error status is 1001 as shown in figures 13 and 14, the E10A-USB emulator test program or the E10A-USB emulator firmware may be an old version. Download updates for the E10A-USB emulator firmware and/or the E10A-USB emulator test program. For the method to update the E10A-USB emulator firmware, refer to section 3.10, Setting up the Emulator, in the Debugger Part of the E10A-USB Emulator User's Manual.

	/er2.0.00		
E10A-USB TM Ver	2.0.00		
START	LOG	QUIT	STOP STATUS 1001

Figure 13 Status Number 1001 (Example)





Figure 14 Error Message of the Flash Memory Test (Example)

# 1.3 When a USB Connection is Not Established

To run the test program, it is assumed that a communication between the PC and the emulator via USB is established. If a message such as in figures 15 or 16 is displayed, check the following:

- 1. Is the emulator setup switch is set to "1"?
- 2. Is the PC setup for the environment under which USB is available?
- 3. Does the PC recognize the USB driver?
- 4. Is the USB cable connected? Are you using the attached USB cable?

For details regarding the switch settings, refer to section 3.8, Setting the DIP Switches, in the Debugger Part of the SuperH<sup>TM</sup> Family E10A-USB Emulator User's Manual.



Figure 15 USB Connection Error (1)

E10A-USB TM
USB CONNECT ERROR
<u> </u>

Figure 16 USB Connection Error (2)

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