

To our customers,

---

## Old Company Name in Catalogs and Other Documents

---

On April 1<sup>st</sup>, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

Send any inquiries to <http://www.renesas.com/inquiry>.

# RENESAS TECHNICAL UPDATE

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan  
 RenesasTechnology Corp.

Product Category	User Development Environment		Document No.	TN-EML-A121A/E	Rev.	1.0
Title	Problem with Accessing in Short Absolute Addressing Mode by Use of the H8SX/1650 E6000H Emulator (HS1650EPH60H)		Information Category	Technical Notification		
Applicable Product	HS1650EPH60H	Lot No.	Reference Document	H8SX/1650 E6000H Emulator User's Manual (REJ10B0036-0400H, Rev. 4.00)		
		Serial No. 0001 to 0044				

Thank you for using our product.

Please note that there is a problem with the H8SX/1650 E6000H emulator (HS1650EPH60H). The result of emulation may be different under the conditions listed below because address conditions that have been set are not correctly recognized.

This problem occurs when all of the following conditions are satisfied during emulation.

[Conditions]

- 1) The program includes a data access in 16-bit absolute addressing mode (@aa:16).
- 2) Data is read from or written to the range of addresses H'FF8000 to H'FFFFFF.
- 3) The above address range is specified for the on-emulator break function, display of trace information, the trace acquisition condition, the condition for Access Count Of Specified Range Measurement, or the monitor function.

The first and second conditions mentioned above will be often applied for accesses to the on-chip I/O or on-chip RAM area unless accesses to 16-bit short absolute addresses are suppressed\* by the optimization function of the compiler.

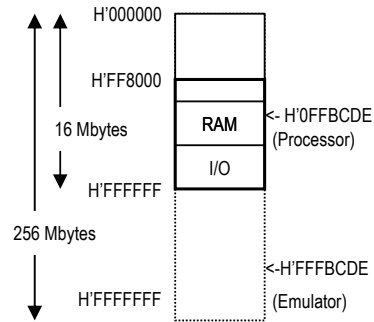
Note: Suppression can be specified with the abs16 option, #pragma abs16, or the inter-module optimizing tool.

Example:

When instruction "MOV.W R1,@H'FFFBCDE:16" is executed after setting the range of H'0FFBCD0 to H'0FFBCFF to be monitored, address H'0FFBCDE in the on-chip RAM is written to.

Note, however, that the emulator does not monitor this writing.

The emulator recognizes this address as H'FFFBCDE and it is thus displayed as H'FFFBCDE in trace bus cycles. If the range of H'FFFBCD0 to H'FFFBCFF is specified for monitoring, the writing will be monitored.



[Solution]

We would like to repair the hardware of the target product defined in this technical update free of charge.

Please contact the sales office from which you have purchased the Renesas product. Quality Control Dept. of

Renesas Solutions Corporation (tel: +81-42-320-7301 (auto/ex: 2845)) will be in charge of the repair.

If you are not sure of the sales office, please enter the following homepage and contact the site of your region:

<http://www.renesas.com/eng/contact>

After this repair, the revision will be G.

Note: The serial number is written on the label at the lower position of the emulator station's rear panel.

MODEL	HS1650EPH60H	Revision of the emulator hardware
SERIAL No.	WS <u>xxxx</u> F	
DATE	200x.xx	Lot No: Serial number 0001 to 0044
	MADE IN JAPAN	