

# RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-MC*-A023A/E	Rev.	1.00
Title	Notes about the issuance of stop condition in master transmit mode of I <sup>2</sup> C Bus Interface 2(IIC2) and I <sup>2</sup> C Bus Interface 3(IIC3)		Information Category	Technical Notification		
Applicable Product	See below	Lot No.	Reference Document	See below		
		All				

We would like to inform you of the notice about I<sup>2</sup>C Bus Interface 2(IIC2) or I<sup>2</sup>C Bus Interface 3(IIC3) included in the below-mentioned applicable product.

#### [Notice]

When a stop condition is issued in master transmit mode while the ACKE bit in the I<sup>2</sup>C bus interrupt enable register (ICIER) is 1, the stop condition may not be normally output depending on the issued timing.

#### [Workaround]

In master transmit mode while the ACKE bit in the I<sup>2</sup>C bus interrupt enable register (ICIER) is 1, recognize the falling edge of the ninth clock before issuance of the stop condition. The falling edge of the ninth clock can be recognized by checking the SCLO bit in the I<sup>2</sup>C control register 2 (ICCR2).

NOTE: In H8S/2400 series, H8SX/1500 series, and H8SX/1600 series, ICCR2 is ICCRB.

**【Applicable Products and Reference Documents】**

Series	Group	Reference Document Title	Rev.	Document No.
<b>H8/300H Tiny</b>	H8/3687	H8/3687 Group Hardware Manual	5.00	REJ09B0027-0500
	H8/3694	H8/3694 Group Hardware Manual	5.00	REJ09B0028-0500
	H8/36049	H8/36049 Group Hardware Manual	3.00	REJ09B0060-0300
	H8/36064	H8/36064 Group Hardware Manual	2.00	REJ09B0068-0200
	H8/36077,H8/36079	H8/36079 Group H8/36077 Group Hardware Manual	3.00	REJ09B0216-0300
	H8/36087	H8/36087 Group Hardware Manual	2.00	REJ09B0160-0200
	H8/36094	H8/36094 Group Hardware Manual	1.00	REJ09B0268-0100
	H8/36109	H8/36109 Group Hardware Manual	1.50	REJ09B0240-0150
	H8/36912,H8/36902	H8/36912 Group H8/36902 Group Hardware Manual	3.00	REJ09B0105-0300
<b>H8/300H Super Low Power</b>	H8/38076R	H8/38076R Group Hardware Manual	4.00	REJ09B0093-0400
	H8/38086R	H8/38086R Group Hardware Manual	3.00	REJ09B0182-0300
	H8/38099	H8/38099 Group Hardware Manual	2.00	REJ09B0309-0200
	H8/38602R	H8/38602R Group Hardware Manual	3.00	REJ09B0152-0300
	H8/38776	H8/38776 Group Hardware Manual	1.00	REJ09B0348-0100
	H8/38799	H8/38799 Group Hardware Manual	1.00	REJ09B0380-0100
<b>H8S/2400</b>	H8S/2437	H8S/2437 Group Hardware Manual	2.00	REJ09B0059-0200
<b>H8S Tiny</b>	H8S/20115,20103, H8S/20215,20203, H8S/20235,20223	H8S/20103 H8S/20203 H8S/20223 H8S/20115 H8S/20215 H8S/20235 Group Hardware Manual	3.00	REJ09B0465-0300
<b>H8SX/1500</b>	H8SX/1544	H8SX/1544 Group Hardware Manual	3.00	REJ09B0381-0300
<b>H8SX/1600</b>	H8SX/1622	H8SX/1622 Group Hardware Manual	2.00	REJ09B0414-0200
	H8SX/1635,H8SX/1635L	H8SX/1635 Group H8SX/1635L Group Hardware Manual	2.00	REJ09B0496-0200
	H8SX/1638,H8SX/1638L	H8SX/1638 Group H8SX/1638L Group Hardware Manual	2.00	REJ09B0364-0200
	H8SX/1645,H8SX/1645L	H8SX/1645 Group H8SX/1645L Group Hardware Manual	2.00	REJ09B0497-0200
	H8SX/1648G,H8SX/1648H H8SX/1648A,H8SX/1648L	H8SX/1648 H8SX/1648A H8SX/1648L H8SX/1648G H8SX/1648H Group Hardware Manual	2.00	REJ09B0365-0200
	H8SX/1653	H8SX/1653 Group Hardware Manual	1.00	REJ09B0219-0100
	H8SX/1655,H8SX/1655M	H8SX/1655 Group H8SX/1655M Group Hardware Manual	2.00	REJ09B0499-0200
	H8SX/1658R,H8SX/1658M	H8SX/1658R Group H8SX/1658M Group Hardware Manual	2.00	REJ09B0413-0200
	H8SX/1663	H8SX/1663 Group Hardware Manual	1.00	REJ09B0294-0100
	H8SX/1665,H8SX/1665M	H8SX/1665 Group H8SX/1665M Group Hardware Manual	2.00	REJ09B0498-0200
	H8SX/1668R,H8SX/1668M	H8SX/1668R Group H8SX/1668M Group Hardware Manual	2.00	REJ09B0412-0200

Series	Group	Reference Document Title	Rev.	Document No.
<b>SH7080</b>	SH7084, SH7085, SH7086	SH7080 Group Hardware Manual	4.00	REJ09B0181-0400
<b>SH7137</b>	SH7131, SH7132, SH7136, SH7137	SH7137 Group Hardware Manual	3.00	REJ09B0402-0300
<b>SH7200</b>	SH7203	SH7203 Group Hardware Manual	3.00	REJ09B0313-0300
	SH7205	SH7205 Group Hardware Manual	2.00	REJ09B0372-0200
<b>SH7210</b>	SH7211	SH7211 Group Hardware Manual	3.00	REJ09B0344-0300
<b>SH7216</b>	SH7214, SH7216	SH7216 Group Hardware Manual	1.01	REJ09B0543-0101
<b>SH7260</b>	SH7262, SH7264	SH7262 Group SH7264 Group Hardware Manual	3.00	R01UH0134EJ0300
	SH7263	SH7263 Group Hardware Manual	3.00	REJ09B0290-0300
	SH7265	SH7265 Group Hardware Manual	2.00	REJ09B0351-0200
	SH7266,SH7267	SH7265 Group SH7267 Group Hardware Manual	1.00	REJ09B0566-0100
<b>SH7450</b>	SH7450,SH7451	SH7450 Group SH7451 Group Hardware Manual	1.00	REJ09B0454-0100
<b>SH7280</b>	SH7285, SH7286	SH7280 Group Hardware Manual	1.00	REJ09B0393-0100
<b>SH7641</b>	SH7641	SH7641 Hardware Manual	4.00	REJ09B0023-0400
<b>SH-Ether</b>	SH7652	SH7652 Group Hardware Manual	2.00	REJ09B0440-0200
	SH7670	SH7670 Group Hardware Manual	2.00	REJ09B0437-0200