

RENESAS TECHNICAL UPDATE

1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 Japan
Renesas Electronics Corporation

Product Category	MPU/MCU		Document No.	TN-SH7-A780A/E	Rev.	1.00
Title	Usage of periodic interrupt for Realtime Clock (RTC)		Information Category	Technical Notification		
Applicable Product	SH7262 Group SH7264 Group SH7266 Group SH7267 Group	Lot No.	Reference Document	<ul style="list-style-type: none"> • SH7262 Group, SH7264 Group Hardware Manual (REJ09B0445-0200) • SH7266 Group, SH7267 Group Hardware Manual (REJ09B0566-0100) 		
		ALL				

We would like to inform you about the usage of periodic interrupt for Realtime Clock (RTC), included in the above-mentioned applicable product.

[Error] Control Register 2 (RCR2)

6 to 4	PES[2:0]	000	R/W	Interrupt Enable Flags
<p>These bits specify the periodic interrupt.</p> <p>000: No periodic interrupts generated</p> <p>001: Periodic interrupt generated every 1/256 second (However, when EXTAL is selected (RCKSEL bit in RCR5 = 1), setting these bits to 001 generates periodic interrupt every 1/128 second.)</p> <p>010: Periodic interrupt generated every 1/64 second</p> <p>011: Periodic interrupt generated every 1/16 second</p> <p>100: Periodic interrupt generated every 1/4 second</p> <p>101: Periodic interrupt generated every 1/2 second</p> <p>110: Periodic interrupt generated every 1 second</p> <p>111: Periodic interrupt generated every 2 seconds</p>				

[Correction] Control Register 2 (RCR2)

6 to 4	PES[2:0]	000	R/W	Interrupt Enable Flags
<p>These bits specify the periodic interrupt.</p> <p>000: No periodic interrupts generated</p> <p>001: Setting prohibited</p> <p>010: Periodic interrupt generated every 1/64 second</p> <p>011: Periodic interrupt generated every 1/16 second</p> <p>100: Periodic interrupt generated every 1/4 second</p> <p>101: Periodic interrupt generated every 1/2 second</p> <p>110: Periodic interrupt generated every 1 second</p> <p>111: Periodic interrupt generated every 2 seconds</p>				