RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-R8C-A016A/E	Rev.	1.00
Title	le Notes on R8C Family (2)		Information Category	Technical Notification		
Applicable Product	R8C/1x Series R8C/2x Series R8C/3x Series R8C/Lx Series	Lot No.	Reference Document			
	g notes have been added to the hardwar to the hardware user's manual for applica		l. The functions	described below do no	t exist ir	n som
This note When in	en inputting an externally generated clock e applies to the R8C/3x Series. putting an externally generated clock from nd the CM12 bit in the CM1 register to 1 (c	n the XCIN pin,	set the CM03 b	-	0 1 (XCII	N cloc
The time The time	timer X and timer RA er X note applies to the R8C/1x Series. er RA note applies to the R8C/2x Series, R set 00h to the TX register or TRA registe				d measu	remer
This note When us TEND b immedia instructio While us	synchronous serial communication unit (S e applies to the R8C/1x Series, R8C/2x Se sing the SSU, a maximum of three cycle bit or TDRE bit in the SSSR register to ttely after writing to the SSTDR register, ons. sing the I ² C bus interface, when reading th RT register, insert more than three NOP ins	eries, R8C/3x Se s are required b 0. When readi insert more tha e TEND bit or TI	ries, and R8C/L between writing ng the TEND I n three NOP in DRE bit in the IC	to the SSTDR register bit or TDRE bit in the structions between the CSR register immediately	SSSR r write an	egiste d read

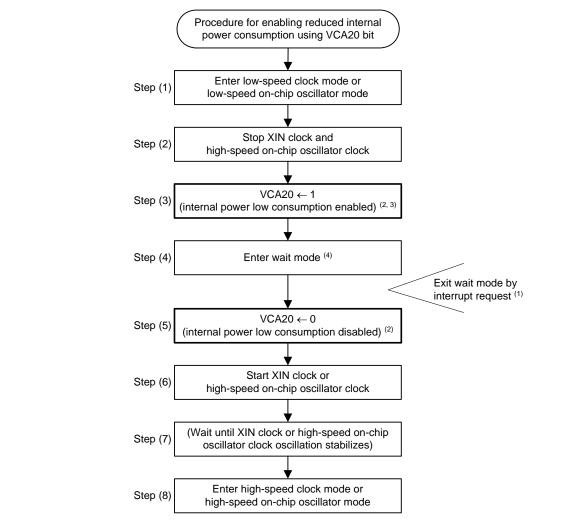


Procedure for enabling reduced internal power consumption using VCA20 bit in the VCA2 register 4

This note applies to the R8C/3x Series and R8C/Lx Series.

The procedure when the MCU enters wait mode by setting the CM30 bit in the CM3 register to 1 is shown below.

Note: The procedure described in the hardware user's manual assumes the MCU enters wait mode by executing the WAIT instruction.



Notes:

1. After entering wait mode by the CM30 bit, when an interrupt request is generated, without performing interrupt handling,

start the execution from the instruction immediately following the instruction to set the CM30 bit to 1.

2. Do not set the VCA20 bit to 0 with the instruction immediately after setting the VCA20 bit to 1. Also, do not do the opposite. When the VCA20 bit is set to 1, do not set the CM10 bit to 1 (stop mode).
When the MCU enters wait mode, comply with the information in the Wait Mode chapter in the hardware user's manual.

