

# RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-UYE01E/A/O/Rev.	1.00
Title	Change in the User's Manual: Hardware to a Statement Regarding I/O Registers		Information Category	Technical Notification	
Applicable Product	RX63T Group	Lot No.	Reference Document	RX63T Group User's Manual: Hardware Rev.2.10 (R01UH0238EJ0210)	
		All lots			

We would like to inform you of a correction (addition) regarding I/O registers in the RX63T Group User's Manual: Hardware Rev.2.10.

The main correction are as follows,

- A) Note of register access on Sleep Mode and Mode Transition is added.
- B) Correction of errors in Table 6.1, List of I/O Registers (Address Order).

The corrected passage is shown in red.

#### A) Note of register access on Sleep Mode and Mode Transition

- On page135, the following statement was added after (3) Number of Access Cycles to I/O Registers.  
(4) Note on Sleep Mode and Mode Transition

During sleep mode or a mode transition, do not write to the system control related registers (indicated by 'SYSTEM' in the Module Symbol column in Table 6.1, List of I/O Registers (Address Order)).

#### B) Correction of errors in Table 6.1, List of I/O Registers (Address Order)

- On page 139, Table 6.1, List of I/O Registers (Address Order) (4/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 7021h	ICU	Interrupt Request Register 033	IR033	8	8	2 ICLK		ICUb	304	Not present in versions with 112, 100, 64, or 48 pins.
0008 7022h	ICU	Interrupt Request Register 034	IR034	8	8	2 ICLK			304	Not present in versions with 112, 100, 64, or 48 pins.
0008 7023h	ICU	Interrupt Request Register 035	IR035	8	8	2 ICLK			304	Not present in versions with 112, 100, 64, or 48 pins.

- On page 140, Table 6.1, List of I/O Registers (Address Order) (5/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 705Ah	ICU	Interrupt Request Register 090	IR090	8	8	2 ICLK		ICUb	304	Not present in versions with 112, 100, 64, or 48 pins.





■ On page 158, Table 6.1, List of I/O Registers (Address Order) (23/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 9876h	AD	A/D Sampling State Register 4	ADSSTR4	8	8	2, 3 PCLKB	2 ICLK	AD	1601	Not present in versions with <del>420-, 442-, 400-</del> 64 or 48 pins.
0008 9877h	AD	A/D Sampling State Register 5	ADSSTR5	8	8	2, 3 PCLKB	2 ICLK		1601	Not present in versions with <del>420-, 442-, 400-</del> 64 or 48 pins.
0008 9878h	AD	A/D Sampling State Register 6	ADSSTR6	8	8	2, 3 PCLKB	2 ICLK		1601	Not present in versions with <del>420-, 442-, 400-</del> 64 or 48 pins.
0008 9879h	AD	A/D Sampling State Register 7	ADSSTR7	8	8	2, 3 PCLKB	2 ICLK		1601	Not present in versions with <del>420-, 442-, 400-</del> 64 or 48 pins.

■ On page 162, Table 6.1, List of I/O Registers (Address Order) (27/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 C04Dh	PORTD	Port Input Data Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports	506	<del>Not present in versions with 64 or 48 pins.</del>
0008 C06Eh	PORTE	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK		507	<del>Not present in versions with 64 or 48 pins.</del>
0008 C080h	PORT0	Open Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK		508	Not present in versions with 120, 112, 100, 64 or 48 pins.
0008 C085h	PORT2	Open Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK		509	<del>Not present in versions with 112 or 100 pins.</del>

■ On page 163, Table 6.1, List of I/O Registers (Address Order) (28/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 C087h	PORT3	Open Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports	509	Not present in versions with 120, 112, 100, 64, or 48 pins.
0008 C092h	PORT9	Open Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK		508	Not present in versions with 144, 120, 112, 100, or 48 pins.
0008 C093h	PORT9	Open Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK		509	<del>Not present in versions with 48 pins.</del>
0008 C09Ah	PORTD	Open Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK		508	<del>Not present in versions with 64 or 48 pins.</del>

■ On page 165, Table 6.1, List of I/O Registers (Address Order) (30/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 C178h	MPC	P70 Pin Function Control Register	P70PFS	8	8	2, 3 PCLKB	2 ICLK	MPC	531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C179h	MPC	P71 Pin Function Control Register	P71PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C17Ah	MPC	P72 Pin Function Control Register	P72PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C17Bh	MPC	P73 Pin Function Control Register	P73PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C17Ch	MPC	P74 Pin Function Control Register	P74PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C17Dh	MPC	P75 Pin Function Control Register	P75PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>
0008 C17Eh	MPC	P76 Pin Function Control Register	P76PFS	8	8	2, 3 PCLKB	2 ICLK		531	<del>Not present in versions with 64 or 48 pins.</del>

■ On page 166, Table 6.1, List of I/O Registers (Address Order) (31/56) was changed.

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access States		Module Name	Reference Page	Remarks
						ICLK ≥ PCLK	ICLK < PCLK			
0008 C196h	MPC	PA6 Pin Function Control Register	PA6PFS	8	8	2, 3 PCLKB	2 ICLK	MPC	534	Not present in versions with 120, 112, 100, 64, or 48 pins.

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