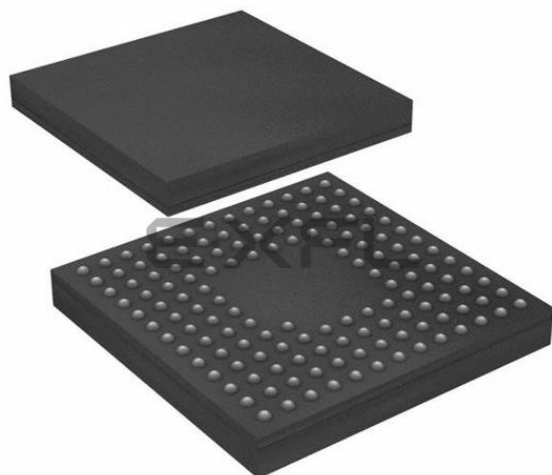




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Details

Product Status	Active
Core Processor	RXv2
Core Size	32-Bit Single-Core
Speed	240MHz
Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, MMC/SD, QSPI, SCI, SPI, SSI, USB OTG
Peripherals	DMA, LVD, POR, PWM, WDT
Number of I/O	111
Program Memory Size	2.5MB (2.5M x 8)
Program Memory Type	FLASH
EEPROM Size	64K x 8
RAM Size	512K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 3.6V
Data Converters	A/D 8x12b, 21x12b; D/A 2x12
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	145-TFLGA
Supplier Device Package	145-TFLGA (7x7)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f571mgcdlk-20

Table 1.6 List of Pin and Pin Functions (176-Pin LQFP) (2/7)

Pin Number	Power Supply Clock System Control	I/O Port	Bus EXDMAC SDRAMC	Timer (MTU, GPT, TPU, TMR, PPG, RTC, CMTW, POE, CAC)	Communication (ETHERC, SCIG, SCIh, RSPI, RIIC, CAN, USB, SSI)	Memory Interface Camera Interface (QSPI, SDHI, MMCIF, PDC)	Interrupt	S12ADC, R12DA
36		P27	CS7#	MTIOC2B/TMC13/PO7	SCK1/ET1_WOL/ RSPCKB-A			
37		P26	CS6#	MTIOC2A/TMO1/PO6	TXD1/CTS3#/ RTS3#/SMOSI1/ SS3#/SSDA1/ ET1_EXOUT/ MOSIB-A			
38		P25	CS5#/ EDACK1	MTIOC4C/MTCLKB/ TIOCA4/PO5	RXD3/SMISO3/ SSCL3/ SSIDATA1	HSYNC		ADTRG0#
39	VCC							
40		P24	CS4#/ EDREQ1	MTIOC4A/MTCLKA/ TIOCB4/TMRI1/PO4	SCK3/ USB0_VBUSEN/ SSISCK1	PIXCLK		
41	VSS							
42		P23	EDACK0	MTIOC3D/MTCLKD/ GTIOC0A-B/TIOCD3/ PO3	TXD3/CTS0#/ RTS0#/SMOSI3/ SS0#/SSDA3/ SSISCK0	PIXD7		
43		P22	EDREQ0	MTIOC3B/MTCLKC/ GTIOC1A-B/TIOCC3/ TMO0/PO2	SCK0/ USB0_OVRCURB/ USBA_OVRCURB/ AUDIO_MCLK	PIXD6		
44		P21		MTIOC1B/MTIOC4A/ GTIOC2A-B/TIOCA3/ TMC10/PO1	RXD0/SMISO0/ SSCL0/ USB0_EXICEN/ USBA_EXICEN/ SSIWS0	PIXD5	IRQ9	
45		P20		MTIOC1A/TIOCB3/ TMRI0/PO0	TXD0/SMOSI0/ SSDA0/USB0_ID/ USBA_ID/ SSIRXD0	PIXD4	IRQ8	
46		P17		MTIOC3A/MTIOC3B/ MTIOC4B/ GTIOC0B-B/TIOCB0/ TCLKD/TMO1/PO15/ POE8#	SCK1/TXD3/ SMOSI3/SSDA3/ SDA2-DS/ SSITXD0	PIXD3	IRQ7	ADTRG1#
47		P87		MTIOC4C/ GTIOC1B-B/TIOCA2	TXD10	PIXD2		
48		P16		MTIOC3C/MTIOC3D/ TIOCB1/TCLKC/ TMO2/PO14/ RTCOUT	TXD1/RXD3/ SMOSI1/SMISO3/ SSDA1/SSCL3/ SCL2-DS/ USB0_VBUS/ USB0_VBUSEN/ USB0_OVRCURB		IRQ6	ADTRG0#
49		P86		MTIOC4D/ GTIOC2B-B/TIOCA0	RXD10	PIXD1		
50		P15		MTIOC0B/MTCLKB/ GTETRIG-B/TIOCB2/ TCLKB/TMC12/PO13	RXD1/SCK3/ SMISO1/SSCL1/ CRX1-DS/ USBA_VBUSEN/ SSIWS1	PIXD0	IRQ5	
51		P14		MTIOC3A/MTCLKA/ TIOCB5/TCLKA/ TMRI2/PO15	CTS1#/RTS1#/ SS1#/CTX1/ USB0_OVRCURA		IRQ4	
52		P13	WR2#/BC2#	MTIOC0B/TIOCA5/ TMO3/PO13	TXD2/SMOSI2/ SSDA2/ SDA0[FM+]		IRQ3	ADTRG1#
53		P12	WR3#/BC3#	MTIC5U/TMC11	RXD2/SMISO2/ SSCL2/ SCL0[FM+]		IRQ2	
54	VCC_USB							
55					USB0_DM			

Table 1.9 List of Pin and Pin Functions (100-Pin TFLGA) (3/4)

Pin Number	Power Supply Clock System Control	I/O Port	Bus EXDMAC SDRAMC	Timer (MTU, GPT, TPU, TMR, PPG, RTC, CMTW, POE, CAC)	Communication (ETHERC, SCIG, SCIh, RSPI, RIIC, CAN, USB, SSI)	Memory Interface Camera Interface (QSPI, SDHI, MMCIF, PDC)	Interrupt	S12ADC, R12DA
F5		P12		TMCI1	RXD2/SMISO2/ SSCL2/SCLO[FM+]		IRQ2	
F6		PB3	A11	MTIOC0A/MTIOC4A/ TIOC03/TCLKD/ TMO0/PO27/POE11#	SCK6/ET0_RX_ER/ RMII0_RX_ER			
F7		PB2	A10	TIOCC3/TCLKC/ PO26	CTS6#/RTS6#SS6#/ ET0_RX_CLK/ REF50CK0			
F8		PB0	A8	MTIC5W/TIOCA3/ PO24	RXD6/SMISO6/ SSCL6/ET0_ERXD1/ RMII0_RXD1		IRQ12	
F9		PA7	A7	TIOCB2/PO23	MISOA-B/ET0_WOL			
F10	VSS							
G1		P33	EDREQ1	MTIOC0D/TIOC0D/ TMRI3/PO11/POE4#/ POE11#	RXD6/RXD0/SMISO6/ SMISO0/SSCL6/ SSCL0/CRX0		IRQ3-DS	
G2	TMS	P31		MTIOC4D/TMCI2/ PO9/RTIC1	CTS1#/RTS1#SS1#/ SSLB0-A		IRQ1-DS	
G3	TDI	P30		MTIOC4B/TMRI3/ PO8/RTIC0/POE8#	RXD1/SMISO1/ SSCL1/MISOB-A		IRQ0-DS	
G4	TCK	P27	CS7#	MTIOC2B/TMCI3/PO7	SCK1/RSPCKB-A			
G5		P53	BCLK					
G6		P52	RD#		RXD2/SMISO2/ SSCL2/SSLB3-A			
G7		PB5	A13	MTIOC2A/MTIOC1B/ TIOCB4/TMRI1/PO29/ POE4#	SCK9/RTS9#/ ET0_ETXD0/ RMII0_TXD0			
G8		PB4	A12	TIOCA4/PO28	CTS9#/ET0_TX_EN/ RMII0_TXD_EN			
G9		PB1	A9	MTIOC0C/MTIOC4C/ TIOCB3/TMCI0/PO25	TXD6/SMOSI6/ SSDA6/ET0_ERXD0/ RMII0_RXD0		IRQ4-DS	
G10	VCC							
H1	TDO	P26	CS6#	MTIOC2A/TMO1/PO6	TXD1/CTS3#/RTS3#/ SMOSI1/SS3#/ SSDA1/MOSIB-A			
H2		P25	CS5#/ EDACK1	MTIOC4C/MTCLKB/ TIOCA4/PO5	RXD3/SMISO3/ SSCL3/SSIDATA1			ADTRG0#
H3		P16		MTIOC3C/MTIOC3D/ TIOCB1/TCLKC/ TMO2/PO14/ RTCOUT	TXD1/RXD3/SMOSI1/ SMISO3/SSDA1/ SSCL3/SSCL2-DS/ USB0_VBUS/ USB0_VBUSEN/ USB0_OVRCURB		IRQ6	ADTRG0#
H4		P15		MTIOC0B/MTCLKB/ GTETR-B/TIOCB2/ TCLKB/TMCI2/PO13	RXD1/SCK3/SMISO1/ SSCL1/CRX1-DS/ SSIWS1		IRQ5	
H5		P55	WAIT#/ EDREQ0	MTIOC4D/TMO3	CRX1/ET0_EXOUT		IRQ10	
H6		P54	ALE/ EDACK0	MTIOC4B/TMCI1	CTS2#/RTS2#SS2#/ CTX1/ET0_LINKSTA			
H7	UB	PC7	A23/CS0#	MTIOC3A/MTCLKB/ GTIOC3A-D/TMO2/ TOC0/PO31/CACREF	TXD8/MISOA-A/ ET0_COL		IRQ14	

Table 1.9 List of Pin and Pin Functions (100-Pin TFLGA) (4/4)

Pin Number	Power Supply Clock System Control	I/O Port	Bus EXDMAC SDRAMC	Timer (MTU, GPT, TPU, TMR, PPG, RTC, CMTW, POE, CAC)	Communication (ETHERC, SCIG, SCIh, RSPI, RIIC, CAN, USB, SSI)	Memory Interface Camera Interface (QSPI, SDHI, MMCIF, PDC)	Interrupt	S12ADC, R12DA
H8		PC6	A22/CS1#	MTIOC3C/MTCLKA/ GTIOC3B-D/TMC12/ TIC0/PO30	RXD8/MOSIA-A/ ET0_ETXD3		IRQ13	
H9		PB6	A14	MTIOC3D/TIOCA5/ PO30	RXD9/ET0_ETXD1/ RMII0_TXD1			
H10		PB7	A15	MTIOC3B/TIOCB5/ PO31	TXD9/ET0_CRS/ RMII0_CRS_DV			
J1		P24	CS4#/ EDREQ1	MTIOC4A/MTCLKA/ TIOCB4/TMRI1/PO4	SCK3/ USB0_VBUSEN/ SSISCK1			
J2		P21		MTIOC1B/MTIOC4A/ GTIOC2A-B/TIOCA3/ TMC10/PO1	RXD0/SMISO0/ SSCL0/ USB0_EXICEN/ SSIWS0		IRQ9	
J3		P17		MTIOC3A/MTIOC3B/ MTIOC4B/GTIOC0B- B/TIOCB0/TCLKD/ TMO1/PO15/POE8#	SCK1/TXD3/SMOSI3/ SSDA3/SDA2-DS/ SSITXD0		IRQ7	ADTRG1#
J4		P13		MTIOC0B/TIOCA5/ TMO3/PO13	TXD2/SMOSI2/ SSDA2/SDA0[FM+]		IRQ3	ADTRG1#
J5	VSS_USB							
J6	VCC_USB							
J7		P50	WR0#/WR#		TXD2/SMOSI2/ SSDA2/SSLB1-A			
J8		PC4	A20/CS3#	MTIOC3D/MTCLKC/ GTETRIG-D/TMC11/ PO25/POE0#	SCK5/CTS8#/SSLA0- A/ET0_TX_CLK			
J9		PC0	A16	MTIOC3C/TCLKC/ PO17	CTS5#/RTS5#/SS5#/ SSLA1-A/ET0_ERXD3		IRQ14	
J10		PC1	A17	MTIOC3A/TCLKD/ PO18	SCK5/SSLA2-A/ ET0_ERXD2		IRQ12	
K1		P23	EDACK0	MTIOC3D/MTCLKD/ GTIOC0A-B/TIOCD3/ PO3	TXD3/CTS0#/RTS0#/ SMOSI3/SS0#/ SSDA3/SSISCK0			
K2		P22	EDREQ0	MTIOC3B/MTCLKC/ GTIOC1A-B/TIOCC3/ TMO0/PO2	SCK0/ USB0_OVRCURB/ AUDIO_MCLK			
K3		P20		MTIOC1A/TIOCB3/ TMRI0/PO0	TXD0/SMOSI0/ SSDA0/USB0_ID/ SSIRXD0		IRQ8	
K4		P14		MTIOC3A/MTCLKA/ TIOCB5/TCLKA/ TMRI2/PO15	CTS1#/RTS1#/SS1#/ CTX1/ USB0_OVRCURA		IRQ4	
K5					USB0_DM			
K6					USB0_DP			
K7		P51	WR1#/BC1#/ WAIT#		SCK2/SSLB2-A			
K8		PC5	A21/CS2#/ WAIT#	MTIOC3B/MTCLKD/ GTIOC1A-D/TMRI2/ PO29	SCK8/RSPCKA-A/ RTS8#/ET0_ETXD2			
K9		PC3	A19	MTIOC4D/GTIOC1B- D/TCLKB/PO24	TXD5/SMOSI5/ SSDA5/ET0_TX_ER			
K10		PC2	A18	MTIOC4B/GTIOC2B- D/TCLKA/PO21	RXD5/SMISO5/ SSCL5/SSLA3-A/ ET0_RX_DV			

Table 4.1 List of I/O Registers (Address Order) (5 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
0008 2804h	EXDMA C0	EXDMA Destination Address Register	EDMDAR	32	32	1, 2 BCLK		EXDMAC a
0008 2808h	EXDMA C0	EXDMA Transfer Count Register	EDMCRA	32	32	1, 2 BCLK		EXDMAC a
0008 280Ch	EXDMA C0	EXDMA Block Transfer Count Register	EDMCRB	16	16	1, 2 BCLK		EXDMAC a
0008 2810h	EXDMA C0	EXDMA Transfer Mode Register	EDMTMD	16	16	1, 2 BCLK		EXDMAC a
0008 2812h	EXDMA C0	EXDMA Output Setting Register	EDMOMD	8	8	1, 2 BCLK		EXDMAC a
0008 2813h	EXDMA C0	EXDMA Interrupt Setting Register	EDMINT	8	8	1, 2 BCLK		EXDMAC a
0008 2814h	EXDMA C0	EXDMA Address Mode Register	EDMAMD	32	32	1, 2 BCLK		EXDMAC a
0008 2818h	EXDMA C0	EXDMA Offset Register	EDMOFR	32	32	1, 2 BCLK		EXDMAC a
0008 281Ch	EXDMA C0	EXDMA Transfer Enable Register	EDMCNT	8	8	1, 2 BCLK		EXDMAC a
0008 281Dh	EXDMA C0	EXDMA Software Start Register	EDMREQ	8	8	1, 2 BCLK		EXDMAC a
0008 281Eh	EXDMA C0	EXDMA Status Register	EDMSTS	8	8	1, 2 BCLK		EXDMAC a
0008 2820h	EXDMA C0	EXDMA External Request Sense Mode Register	EDMRMD	8	8	1, 2 BCLK		EXDMAC a
0008 2821h	EXDMA C0	EXDMA External Request Flag Register	EDMERF	8	8	1, 2 BCLK		EXDMAC a
0008 2822h	EXDMA C0	EXDMA Peripheral Request Flag Register	EDMPRF	8	8	1, 2 BCLK		EXDMAC a
0008 2840h	EXDMA C1	EXDMA Source Address Register	EDMSAR	32	32	1, 2 BCLK		EXDMAC a
0008 2844h	EXDMA C1	EXDMA Destination Address Register	EDMDAR	32	32	1, 2 BCLK		EXDMAC a
0008 2848h	EXDMA C1	EXDMA Transfer Count Register	EDMCRA	32	32	1, 2 BCLK		EXDMAC a
0008 284Ch	EXDMA C1	EXDMA Block Transfer Count Register	EDMCRB	16	16	1, 2 BCLK		EXDMAC a
0008 2850h	EXDMA C1	EXDMA Transfer Mode Register	EDMTMD	16	16	1, 2 BCLK		EXDMAC a
0008 2852h	EXDMA C1	EXDMA Output Setting Register	EDMOMD	8	8	1, 2 BCLK		EXDMAC a
0008 2853h	EXDMA C1	EXDMA Interrupt Setting Register	EDMINT	8	8	1, 2 BCLK		EXDMAC a
0008 2854h	EXDMA C1	EXDMA Address Mode Register	EDMAMD	32	32	1, 2 BCLK		EXDMAC a
0008 285Ch	EXDMA C1	EXDMA Transfer Enable Register	EDMCNT	8	8	1, 2 BCLK		EXDMAC a
0008 285Dh	EXDMA C1	EXDMA Software Start Register	EDMREQ	8	8	1, 2 BCLK		EXDMAC a
0008 285Eh	EXDMA C1	EXDMA Status Register	EDMSTS	8	8	1, 2 BCLK		EXDMAC a
0008 2860h	EXDMA C1	EXDMA External Request Sense Mode Register	EDMRMD	8	8	1, 2 BCLK		EXDMAC a
0008 2861h	EXDMA C1	EXDMA External Request Flag Register	EDMERF	8	8	1, 2 BCLK		EXDMAC a
0008 2862h	EXDMA C1	EXDMA Peripheral Request Flag Register	EDMPRF	8	8	1, 2 BCLK		EXDMAC a
0008 2A00h	EXDMA C	EXDMA Module Start Register	EDMAST	8	8	1, 2 BCLK		EXDMAC a
0008 2BE0h	EXDMA C	Cluster Buffer Register 0	CLSBR0	32	32	1, 2 BCLK		EXDMAC a
0008 2BE4h	EXDMA C	Cluster Buffer Register 1	CLSBR1	32	32	1, 2 BCLK		EXDMAC a

Table 4.1 List of I/O Registers (Address Order) (7 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
0008 3880h	BSC	CS Recovery Cycle Insertion Enable Register	CSRECEN	16	16	1, 2 BCLK		Buses
0008 3C00h	BSC	SDC Control Register	SDCCR	8	8	1, 2 BCLK		Buses
0008 3C01h	BSC	SDC Mode Register	SDCMOD	8	8	1, 2 BCLK		Buses
0008 3C02h	BSC	SDRAM Access Mode Register	SDAMOD	8	8	1, 2 BCLK		Buses
0008 3C10h	BSC	SDRAM Self-Refresh Control Register	SDSELF	8	8	1, 2 BCLK		Buses
0008 3C14h	BSC	SDRAM Refresh Control Register	SDRFCR	16	16	1, 2 BCLK		Buses
0008 3C16h	BSC	SDRAM Auto-Refresh Control Register	SDRFEN	8	8	1, 2 BCLK		Buses
0008 3C20h	BSC	SDRAM Initialization Sequence Control Register	SDICR	8	8	1, 2 BCLK		Buses
0008 3C24h	BSC	SDRAM Initialization Register	SDIR	16	16	1, 2 BCLK		Buses
0008 3C40h	BSC	SDRAM Address Register	SDADR	8	8	1, 2 BCLK		Buses
0008 3C44h	BSC	SDRAM Timing Register	SDTR	32	32	1, 2 BCLK		Buses
0008 3C48h	BSC	SDRAM Mode Register	SDMOD	16	16	1, 2 BCLK		Buses
0008 3C50h	BSC	SDRAM Status Register	SDSR	8	8	1, 2 BCLK		Buses
0008 6400h	MPU	Region-0 Start Page Number Register	RSPAGE0	32	32	1 ICLK		MPU
0008 6404h	MPU	Region-0 End Page Number Register	REPAGE0	32	32	1 ICLK		MPU
0008 6408h	MPU	Region-1 Start Page Number Register	RSPAGE1	32	32	1 ICLK		MPU
0008 640Ch	MPU	Region-1 End Page Number Register	REPAGE1	32	32	1 ICLK		MPU
0008 6410h	MPU	Region-2 Start Page Number Register	RSPAGE2	32	32	1 ICLK		MPU
0008 6414h	MPU	Region-2 End Page Number Register	REPAGE2	32	32	1 ICLK		MPU
0008 6418h	MPU	Region-3 Start Page Number Register	RSPAGE3	32	32	1 ICLK		MPU
0008 641Ch	MPU	Region-3 End Page Number Register	REPAGE3	32	32	1 ICLK		MPU
0008 6420h	MPU	Region-4 Start Page Number Register	RSPAGE4	32	32	1 ICLK		MPU
0008 6424h	MPU	Region-4 End Page Number Register	REPAGE4	32	32	1 ICLK		MPU
0008 6428h	MPU	Region-5 Start Page Number Register	RSPAGE5	32	32	1 ICLK		MPU
0008 642Ch	MPU	Region-5 End Page Number Register	REPAGE5	32	32	1 ICLK		MPU
0008 6430h	MPU	Region-6 Start Page Number Register	RSPAGE6	32	32	1 ICLK		MPU
0008 6434h	MPU	Region-6 End Page Number Register	REPAGE6	32	32	1 ICLK		MPU
0008 6438h	MPU	Region-7 Start Page Number Register	RSPAGE7	32	32	1 ICLK		MPU
0008 643Ch	MPU	Region-7 End Page Number Register	REPAGE7	32	32	1 ICLK		MPU
0008 6500h	MPU	Memory-Protection Enable Register	MPEN	32	32	1 ICLK		MPU
0008 6504h	MPU	Background Access Control Register	MPBAC	32	32	1 ICLK		MPU
0008 6508h	MPU	Memory-Protection Error Status-Clearing Register	MPECLR	32	32	1 ICLK		MPU
0008 650Ch	MPU	Memory-Protection Error Status Register	MPESTS	32	32	1 ICLK		MPU
0008 6514h	MPU	Data Memory-Protection Error Address Register	MPDEA	32	32	1 ICLK		MPU
0008 6520h	MPU	Region Search Address Register	MPSA	32	32	1 ICLK		MPU
0008 6524h	MPU	Region Search Operation Register	MPOPS	16	16	1 ICLK		MPU
0008 6526h	MPU	Region Invalidation Operation Register	MPOPI	16	16	1 ICLK		MPU
0008 6528h	MPU	Instruction-Hit Region Register	MHITI	32	32	1 ICLK		MPU
0008 652Ch	MPU	Data-Hit Region Register	MHITD	32	32	1 ICLK		MPU
0008 6610h	SYSTEM	Memory Wait Cycle Setting Register	MEMWAIT	32	32	1 ICLK		RAM
0008 7010h to 0008 70FFh	ICU	Interrupt Request Registers 016 to 255	IR016 to 255	8	8	2 ICLK		ICUA
0008 711Ah to 0008 71FFh	ICU	DTC Start Enable Registers 026 to 255	DTCE026 to DTCE255	8	8	2 ICLK		ICUA
0008 7202h to 0008 721Fh	ICU	Interrupt Request Enable Registers 02 to 1F	IER02 to IER1F	8	8	2 ICLK		ICUA
0008 72E0h	ICU	Software Interrupt Generation Register	SWINTR	8	8	2 ICLK		ICUA
0008 72E1h	ICU	Software Interrupt 2 Generation Register	SWINT2R	8	8	2 ICLK		ICUA
0008 72F0h	ICU	Fast Interrupt Set Register	FIR	16	16	2 ICLK		ICUA
0008 7300h to 0008 73FFh	ICU	Interrupt Source Priority Registers 000 to 255	IPR000 to IPR255	8	8	2 ICLK		ICUA

Table 4.1 List of I/O Registers (Address Order) (25 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
0008 A0E6h	SCI7	Smart Card Mode Register	SCMR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0E7h	SCI7	Serial Extended Mode Register	SEMR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0E8h	SCI7	Noise Filter Setting Register	SNFR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0E9h	SCI7	I ² C Mode Register 1	SIMR1	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EAh	SCI7	I ² C Mode Register 2	SIMR2	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EBh	SCI7	I ² C Mode Register 3	SIMR3	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0ECh	SCI7	I ² C Status Register	SISR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EDh	SCI7	SPI Mode Register	SPMR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EEh	SCI7	Transmit Data Register H	TDRH	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EFh	SCI7	Transmit Data Register L	TDRL	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0EEh	SCI7	Transmit Data Register HL	TDRHL	16	16	4, 5 PCLKB	2 ICLK	SCIg, SC1h
0008 A0F0h	SCI7	Receive Data Register H	RDRH	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0F1h	SCI7	Receive Data Register L	RDRL	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A0F0h	SCI7	Receive Data Register HL	RDRHL	16	16	4, 5 PCLKB	2 ICLK	SCIg, SC1h
0008 A0F2h	SCI7	Modulation Duty Register	MDDR	8	8	2, 3 PCLKB	2 ICLK	SCIg, SC1h
0008 A500h	SSI0	Control Register	SSICR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A504h	SSI0	Status Register	SSISR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A510h	SSI0	FIFO Control Register	SSIFCR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A514h	SSI0	FIFO Status Register	SSIFSR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A518h	SSI0	Transmit FIFO Data Register	SSIFTDR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A51Ch	SSI0	Receive FIFO Data Register	SSIFRDR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A520h	SSI0	TDM Mode Register	SSITDMR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A540h	SSI1	Control Register	SSICR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A544h	SSI1	Status Register	SSISR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A550h	SSI1	FIFO Control Register	SSIFCR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A554h	SSI1	FIFO Status Register	SSIFSR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A558h	SSI1	Transmit FIFO Data Register	SSIFTDR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A55Ch	SSI1	Receive FIFO Data Register	SSIFRDR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 A560h	SSI1	TDM Mode Register	SSITDMR	32	32	2, 3 PCLKB	2 ICLK	SSI
0008 AC00h	SDHI	Command Register	SDCMD	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC08h	SDHI	Argument Register	SDARG	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC10h	SDHI	Data Stop Register	SDSTOP	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC14h	SDHI	Block Count Register	SDBLKCNT	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC18h	SDHI	Response Register 10	SDRSP10	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC20h	SDHI	Response Register 32	SDRSP32	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC28h	SDHI	Response Register 54	SDRSP54	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC30h	SDHI	Response Register 76	SDRSP76	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC38h	SDHI	SD Status Register 1	SDSTS1	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC3Ch	SDHI	SD Status Register 2	SDSTS2	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC40h	SDHI	SD Interrupt Mask Register 1	SDIMSK1	32	32	2 to 3 PCLKB	2 ICLK	SDHI
0008 AC44h	SDHI	SD Interrupt Mask Register 2	SDIMSK2	32	32	2 to 3 PCLKB	2 ICLK	SDHI

Table 4.1 List of I/O Registers (Address Order) (29 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
0008 C02Fh	PORTF	Port Output Data Register	PODR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C030h	PORTG	Port Output Data Register	PODR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C032h	PORTJ	Port Output Data Register	PODR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C040h	PORT0	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C041h	PORT1	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C042h	PORT2	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C043h	PORT3	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C044h	PORT4	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C045h	PORT5	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C046h	PORT6	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C047h	PORT7	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C048h	PORT8	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C049h	PORT9	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Ah	PORTA	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Bh	PORTB	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Ch	PORTC	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Dh	PORTD	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Eh	PORTE	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C04Fh	PORTF	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C050h	PORTG	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C052h	PORTJ	Port Input Register	PIDR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C060h	PORT0	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C061h	PORT1	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C062h	PORT2	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C063h	PORT3	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C064h	PORT4	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C065h	PORT5	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C066h	PORT6	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C067h	PORT7	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C068h	PORT8	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C069h	PORT9	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Ah	PORTA	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Bh	PORTB	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Ch	PORTC	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Dh	PORTD	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Eh	PORTE	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C06Fh	PORTF	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C070h	PORTG	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C072h	PORTJ	Port Mode Register	PMR	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C080h	PORT0	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C081h	PORT0	Open-Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C082h	PORT1	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C083h	PORT1	Open-Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C084h	PORT2	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C085h	PORT2	Open-Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C086h	PORT3	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C087h	PORT3	Open-Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C088h	PORT4	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C089h	PORT4	Open-Drain Control Register 1	ODR1	8	8	2, 3 PCLKB	2 ICLK	I/O Ports
0008 C08Ah	PORT5	Open-Drain Control Register 0	ODR0	8	8	2, 3 PCLKB	2 ICLK	I/O Ports

Table 4.1 List of I/O Registers (Address Order) (33 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
0008 C1A7h	MPC	PC7 Pin Function Control Register	PC7PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1A8h	MPC	PD0 Pin Function Control Register	PD0PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1A9h	MPC	PD1 Pin Function Control Register	PD1PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1AAh	MPC	PD2 Pin Function Control Register	PD2PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1ABh	MPC	PD3 Pin Function Control Register	PD3PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1Ach	MPC	PD4 Pin Function Control Register	PD4PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1Adh	MPC	PD5 Pin Function Control Register	PD5PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1AEh	MPC	PD6 Pin Function Control Register	PD6PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1AFh	MPC	PD7 Pin Function Control Register	PD7PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B0h	MPC	PE0 Pin Function Control Register	PE0PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B1h	MPC	PE1 Pin Function Control Register	PE1PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B2h	MPC	PE2 Pin Function Control Register	PE2PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B3h	MPC	PE3 Pin Function Control Register	PE3PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B4h	MPC	PE4 Pin Function Control Register	PE4PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B5h	MPC	PE5 Pin Function Control Register	PE5PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B6h	MPC	PE6 Pin Function Control Register	PE6PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B7h	MPC	PE7 Pin Function Control Register	PE7PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B8h	MPC	PF0 Pin Function Control Register	PF0PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1B9h	MPC	PF1 Pin Function Control Register	PF1PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1BAh	MPC	PF2 Pin Function Control Register	PF2PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1BDh	MPC	PF5 Pin Function Control Register	PF5PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C0h	MPC	PG0 Pin Function Control Register	PG0PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C1h	MPC	PG1 Pin Function Control Register	PG1PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C2h	MPC	PG2 Pin Function Control Register	PG2PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C3h	MPC	PG3 Pin Function Control Register	PG3PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C4h	MPC	PG4 Pin Function Control Register	PG4PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C5h	MPC	PG5 Pin Function Control Register	PG5PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C6h	MPC	PG6 Pin Function Control Register	PG6PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1C7h	MPC	PG7 Pin Function Control Register	PG7PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1D3h	MPC	PJ3 Pin Function Control Register	PJ3PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C1D5h	MPC	PJ5 Pin Function Control Register	PJ5PFS	8	8	2, 3 PCLKB	2 ICLK	MPC
0008 C280h	SYSTEM	Deep Standby Control Register	DPSBYCR	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C282h	SYSTEM	Deep Standby Interrupt Enable Register 0	DPSIER0	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C283h	SYSTEM	Deep Standby Interrupt Enable Register 1	DPSIER1	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C284h	SYSTEM	Deep Standby Interrupt Enable Register 2	DPSIER2	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C285h	SYSTEM	Deep Standby Interrupt Enable Register 3	DPSIER3	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C286h	SYSTEM	Deep Standby Interrupt Flag Register 0	DPSIFR0	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C287h	SYSTEM	Deep Standby Interrupt Flag Register 1	DPSIFR1	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption

Table 4.1 List of I/O Registers (Address Order) (34 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK $\geq$ PCLK	ICLK < PCLK	
0008 C288h	SYSTEM	Deep Standby Interrupt Flag Register 2	DPSIFR2	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C289h	SYSTEM	Deep Standby Interrupt Flag Register 3	DPSIFR3	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C28Ah	SYSTEM	Deep Standby Interrupt Edge Register 0	DPSIEGR0	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C28Bh	SYSTEM	Deep Standby Interrupt Edge Register 1	DPSIEGR1	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C28Ch	SYSTEM	Deep Standby Interrupt Edge Register 2	DPSIEGR2	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C28Dh	SYSTEM	Deep Standby Interrupt Edge Register 3	DPSIEGR3	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C290h	SYSTEM	Reset Status Register 0	RSTSR0	8	8	4, 5 PCLKB	2, 3 ICLK	Resets
0008 C291h	SYSTEM	Reset Status Register 1	RSTSR1	8	8	4, 5 PCLKB	2, 3 ICLK	Resets
0008 C293h	SYSTEM	Main Clock Oscillator Forced Oscillation Control Register	MOFCR	8	8	4, 5 PCLKB	2, 3 ICLK	Clock Generation Circuit
0008 C294h	SYSTEM	High-Speed On-Chip Oscillator Power Supply Control Register	HOCOPCR	8	8	4, 5 PCLKB	2, 3 ICLK	Clock Generation Circuit
0008 C297h	SYSTEM	Voltage Monitoring Circuit Control Register	LVCMPCR	8	8	4, 5 PCLKB	2, 3 ICLK	LDVA
0008 C298h	SYSTEM	Voltage Detection Level Select Register	LVDLVL	8	8	4, 5 PCLKB	2, 3 ICLK	LDVA
0008 C29Ah	SYSTEM	Voltage Monitoring 1 Circuit Control Register 0	LVD1CR0	8	8	4, 5 PCLKB	2, 3 ICLK	LDVA
0008 C29Bh	SYSTEM	Voltage Monitoring 2 Circuit Control Register 0	LVD2CR0	8	8	4, 5 PCLKB	2, 3 ICLK	LDVA
0008 C2A0h to 0008 C2BFh	SYSTEM	Deep Standby Backup Registers 0 to 31	DPSBKR0 to 31	8	8	4, 5 PCLKB	2, 3 ICLK	Low Power Consumption
0008 C400h	RTC	64-Hz Counter	R64CNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C402h	RTC	Second Counter	RSECCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C402h	RTC	Binary Counter 0	BCNT0	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C404h	RTC	Minute Counter	RMINCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C404h	RTC	Binary Counter 1	BCNT1	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C406h	RTC	Hour Counter	RHRCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C406h	RTC	Binary Counter 2	BCNT2	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C408h	RTC	Day-of-Week Counter	RWKCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C408h	RTC	Binary Counter 3	BCNT3	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C40Ah	RTC	Date Counter	RDAYCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C40Ch	RTC	Month Counter	RMONCNT	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C40Eh	RTC	Year Counter	RYRCNT	16	16	2, 3 PCLKB	2 ICLK	RTCd
0008 C410h	RTC	Second Alarm Register	RSECAR	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C410h	RTC	Binary Counter 0 Alarm Register	BCNT0AR	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C412h	RTC	Minute Alarm Register	RMINAR	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C412h	RTC	Binary Counter 1 Alarm Register	BCNT1AR	8	8	2, 3 PCLKB	2 ICLK	RTCd
0008 C414h	RTC	Hour Alarm Register	RHRAR	8	8	2, 3 PCLKB	2 ICLK	RTCd

Table 4.1 List of I/O Registers (Address Order) (48 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
000C 1406h	MTU2	Timer Counter	TCNT	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1408h	MTU2	Timer General Register A	TGRA	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 140Ah	MTU2	Timer General Register B	TGRB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 140Ch	MTU2	Timer Control Register 2	TCR2	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1600h	MTU8	Timer Control Register	TCR	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1601h	MTU8	Timer Mode Register 1	TMDR1	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1602h	MTU8	Timer I/O Control Register H	TIORH	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1603h	MTU8	Timer I/O Control Register L	TIORL	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1604h	MTU8	Timer Interrupt Enable Register	TIER	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1606h	MTU8	Timer Control Register 2	TCR2	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1608h	MTU8	Timer Counter	TCNT	32	32	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 160Ch	MTU8	Timer General Register A	TGRA	32	32	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1610h	MTU8	Timer General Register B	TGRB	32	32	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1614h	MTU8	Timer General Register C	TGRC	32	32	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1618h	MTU8	Timer General Register D	TGRD	32	32	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A00h	MTU6	Timer Control Register	TCR	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A01h	MTU7	Timer Control Register	TCR	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A02h	MTU6	Timer Mode Register 1	TMDR1	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A03h	MTU7	Timer Mode Register 1	TMDR1	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A04h	MTU6	Timer I/O Control Register H	TIORH	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A05h	MTU6	Timer I/O Control Register L	TIORL	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A06h	MTU7	Timer I/O Control Register H	TIORH	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A07h	MTU7	Timer I/O Control Register L	TIORL	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A08h	MTU6	Timer Interrupt Enable Register	TIER	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A09h	MTU7	Timer Interrupt Enable Register	TIER	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A0Ah	MTU	Timer Output Master Enable Register B	TOERB	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A0Eh	MTU	Timer Output Control Register 1B	TOCR1B	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A0Fh	MTU	Timer Output Control Register 2B	TOCR2B	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A10h	MTU6	Timer Counter	TCNT	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A12h	MTU7	Timer Counter	TCNT	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A14h	MTU	Timer Cycle Data Register B	TCDRB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A16h	MTU	Timer Dead Time Data Register B	TDDRb	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A18h	MTU6	Timer General Register A	TGRA	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A1Ah	MTU6	Timer General Register B	TGRB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A1Ch	MTU7	Timer General Register A	TGRA	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A1Eh	MTU7	Timer General Register B	TGRB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A20h	MTU	Timer Subcounter B	TCNTSB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A22h	MTU	Timer Cycle Buffer Register B	TCBRB	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A24h	MTU6	Timer General Register C	TGRC	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A26h	MTU6	Timer General Register D	TGRD	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A28h	MTU7	Timer General Register C	TGRC	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A2Ah	MTU7	Timer General Register D	TGRD	16	16	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A2Ch	MTU6	Timer Status Register	TSR	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A2Dh	MTU7	Timer Status Register	TSR	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A30h	MTU	Timer Interrupt Skipping Set Register 1B	TITCR1B	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A31h	MTU	Timer Interrupt Skipping Counter 1B	TITCNT1B	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A32h	MTU	Timer Buffer Transfer Set Register B	TBTERB	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A34h	MTU	Timer Dead Time Enable Register B	TDERB	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A36h	MTU	Timer Output Level Buffer Register B	TOLBRB	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a
000C 1A38h	MTU6	Timer Buffer Operation Transfer Mode Register	TBTM	8	8	5, 6 PCLKA	2, 3 ICLK	MTU3a

Table 4.1 List of I/O Registers (Address Order) (53 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK ≥ PCLK	ICLK < PCLK	
000C 4004h	EPTPC	MINT Interrupt Request Permission Register	MIEIPR	32	32	5, 6 PCLKA	2, 3 ICLK	EPTPCa
000C 4010h	EPTPC	ELC Output/IPLS Interrupt Request Permission Register	ELIPPR	32	32	5, 6 PCLKA	2, 3 ICLK	EPTPCa
000C 4014h	EPTPC	ELC Output/IPLS Interrupt Permission Automatic Clearing Register	ELIPACR	32	32	5, 6 PCLKA	2, 3 ICLK	EPTPCa
000C 4040h	EPTPC	STCA Status Register	STSR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4044h	EPTPC	STCA Status Notification Permission Register	STIPR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4050h	EPTPC	STCA Clock Frequency Setting Register	STCFR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4054h	EPTPC	STCA Operating Mode Register	STMR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4058h	EPTPC	Sync Message Reception Timeout Register	SYNTOR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4060h	EPTPC	IPLS Interrupt Request Timer Select Register	IPTSELR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4064h	EPTPC	MINT Interrupt Request Timer Select Register	MITSELR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4068h	EPTPC	ELC Output Timer Select Register	ELTSELR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 406Ch	EPTPC	Time Synchronization Channel Select Register	STCHSELR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4080h	EPTPC	Slave Time Synchronization Start Register	SYNSTARTR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4084h	EPTPC	Local Time Counter Initial Value Load Directive Register	LCIVLDR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4090h	EPTPC	Synchronization Loss Detection Threshold Register	SYNTDARU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4094h	EPTPC	Synchronization Loss Detection Threshold Register	SYNTDARL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4098h	EPTPC	Synchronization Detection Threshold Register	SYNTDBRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 409Ch	EPTPC	Synchronization Detection Threshold Register	SYNTDBRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 40B0h	EPTPC	Local Time Counter Initial Value Register	LCIVRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 40B4h	EPTPC	Local Time Counter Initial Value Register	LCIVRM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 40B8h	EPTPC	Local Time Counter Initial Value Register	LCIVRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4124h	EPTPC	Worst 10 Acquisition Directive Register	GETW10R	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4128h	EPTPC	Positive Gradient Limit Register	PLIMITRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 412Ch	EPTPC	Positive Gradient Limit Register	PLIMITRM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4130h	EPTPC	Positive Gradient Limit Register	PLIMITRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4134h	EPTPC	Negative Gradient Limit Register	MLIMITRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4138h	EPTPC	Negative Gradient Limit Register	MLIMITRM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 413Ch	EPTPC	Negative Gradient Limit Register	MLIMITRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4140h	EPTPC	Statistical Information Retention Control Register	GETINFOR	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4170h	EPTPC	Local Time Counter	LCCVRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4174h	EPTPC	Local Time Counter	LCCVRM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4178h	EPTPC	Local Time Counter	LCCVRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4210h	EPTPC	Positive Gradient Worst 10 Value Register	PW10VRU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4214h	EPTPC	Positive Gradient Worst 10 Value Register	PW10VRM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4218h	EPTPC	Positive Gradient Worst 10 Value Register	PW10VRL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 42D0h	EPTPC	Negative Gradient Worst 10 Value Register	MW10RU	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 42D4h	EPTPC	Negative Gradient Worst 10 Value Register	MW10RM	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 42D8h	EPTPC	Negative Gradient Worst 10 Value Register	MW10RL	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4300h	EPTPC	Timer Start Time Setting Register	TMSTTRU0	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4304h	EPTPC	Timer Start Time Setting Register	TMSTTRL0	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4308h	EPTPC	Timer Cycle Setting Register 0	TMCYCR0	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 430Ch	EPTPC	Timer Pulse Width Setting Register 0	TMPLSR0	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4310h	EPTPC	Timer Start Time Setting Register	TMSTTRU1	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4314h	EPTPC	Timer Start Time Setting Register	TMSTTRL1	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4318h	EPTPC	Timer Cycle Setting Register 1	TMCYCR1	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 431Ch	EPTPC	Timer Pulse Width Setting Register 1	TMPLSR1	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4320h	EPTPC	Timer Start Time Setting Register	TMSTTRU2	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa
000C 4324h	EPTPC	Timer Start Time Setting Register	TMSTTRL2	32	32	8 to 43 PCLKA	2 to 22 ICLK	EPTPCa

Table 4.1 List of I/O Registers (Address Order) (67 / 67)

Address	Module Symbol	Register Name	Register Symbol	Number of Bits	Access Size	Number of Access Cycles		Related Function
						ICLK $\geq$ PCLK	ICLK < PCLK	
000D 0564h	USBA	Deep Standby USB Suspend/Resume Interrupt Register	DPUSR1R	32	32	(3 + BUSWAIT) PCLKA or more	Rounded up to the nearest integer greater than $1 + (3 + \text{BUSWAIT}) \times (\text{frequency ratio of ICLK/PCLKB})^{*5}$	USBAa

- Note 1. When the same output trigger is specified for pulse output groups 2 and 3 by the PPG0.PCR setting, the PPG0.NDRH address is 0008 81ECh. When different output triggers are specified, the PPG0.NDRH addresses for pulse output groups 2 and 3 are 0008 81EEh and 0008 81ECh, respectively.
- Note 2. When the same output trigger is specified for pulse output groups 0 and 1 by the PPG0.PCR setting, the PPG0.NDRL address is 0008 81EDh. When different output triggers are specified, the PPG0.NDRL addresses for pulse output groups 0 and 1 are 0008 81EFh and 0008 81EDh, respectively.
- Note 3. When the same output trigger is specified for pulse output groups 6 and 7 by the PPG1.PCR setting, the PPG1.NDRH address is 0008 81FCh. When different output triggers are specified, the PPG1.NDRH addresses for pulse output groups 6 and 7 are 0008 81FEh and 0008 81FCh, respectively.
- Note 4. When the same output trigger is specified for pulse output groups 4 and 5 by the PPG1.PCR setting, the PPG1.NDRL address is 0008 81FDh. When different output triggers are specified, the PPG1.NDRL addresses for pulse output groups 4 and 5 are 0008 81FFh and 0008 81FDh, respectively.
- Note 5. When the register is accessed while the USB is operating, a delay may be generated in accessing.

Table 5.6 Permissible Output Currents

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PV_{SS_USBA} = AV_{SS_USBA} = 0$ V,
 $T_a = T_{opr}$

Item			Symbol	Min.	Typ.	Max.	Unit
Permissible output low current (average value per pin)	All output pins*1	Normal drive	I_{OL}	—	—	2.0	mA
	All output pins*2	High drive	I_{OL}	—	—	3.8	mA
Permissible output low current (max. value per pin)	All output pins*1	Normal drive	I_{OL}	—	—	4.0	mA
	All output pins*2	High drive	I_{OL}	—	—	7.6	mA
Permissible output low current (total)	Total of all output pins		ΣI_{OL}	—	—	80	mA
Permissible output high current (average value per pin)	All output pins*1	Normal drive	I_{OH}	—	—	-2.0	mA
	USB_DPUPE pin*2	High drive	I_{OH}	—	—	-3.8	mA
Permissible output high current (max. value per pin)	All output pins*1	Normal drive	I_{OH}	—	—	-4.0	mA
	All output pins*2	High drive	I_{OH}	—	—	-7.6	mA
Permissible output high current (total)	Total of all output pins		ΣI_{OH}	—	—	-80	mA

Caution: To protect the LSI's reliability, the output current values should not exceed the values in this table.

Note 1. This is the value when normal driving ability is set with a pin for which normal driving ability is selectable.

Note 2. This is the value when high driving ability is set with a pin for which normal driving ability is selectable or the value of the pin to which high driving ability is fixed.

Table 5.9 Operating Frequency (Low-Speed Operating Mode 2)

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PV_{SS_USBA} = AV_{SS_USBA} = 0$ V,
 $T_a = T_{opr}$

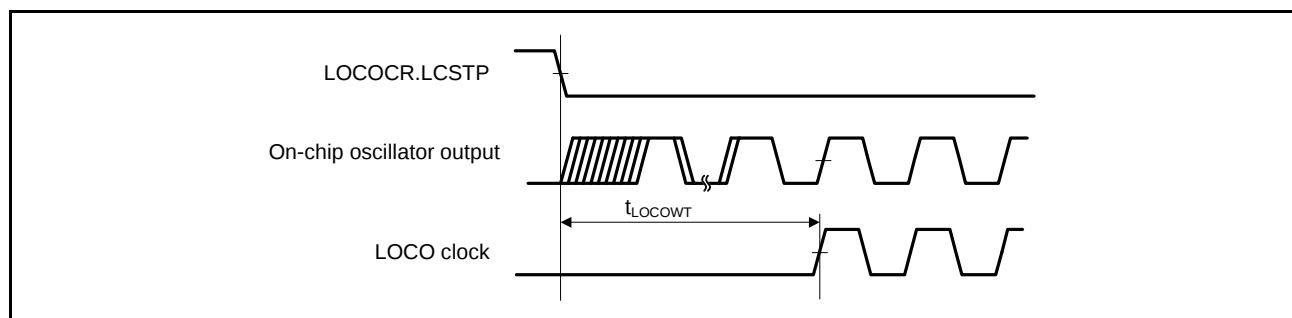
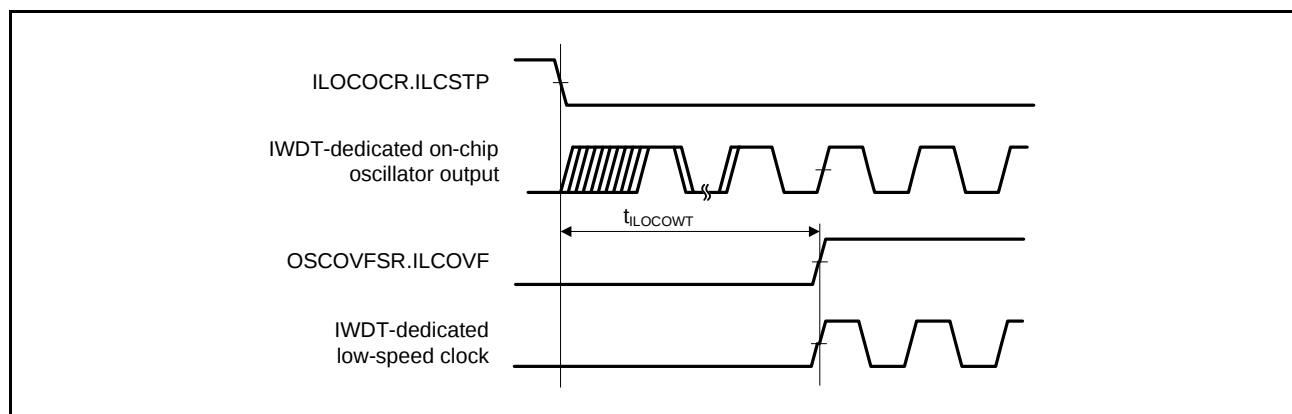
Item			Symbol	Min.	Typ.	Max.	Unit
Operating frequency	System clock (ICLK)		f	32	—	264	kHz
	Peripheral module clock (PCLKA)			—	—	264	
	Peripheral module clock (PCLKB)			—	—	264	
	Peripheral module clock (PCLKC)* ¹			—	—	264	
	Peripheral module clock (PCLKD)* ¹			—	—	264	
	Flash-IF clock (FCLK)			32	—	264	
	External bus clock (BCLK)	Packages with 177 to 144 pins only		—	—	264	
		Package with 100 pins only		—	—	264	
	BCLK pin output	Packages with 177 to 144 pins only		—	—	264	
		Package with 100 pins only		—	—	264	
	SDRAM clock (SDCLK)	Packages with 177 to 144 pins only		—	—	264	
	SDCLK pin output	Packages with 177 to 144 pins only		—	—	264	

Note 1. The 12-bit A/D converter cannot be used.

Table 5.14 LOCO and IWDT-Dedicated Low-Speed Clock Timing

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PVSS_USBA = AVSS_USBA = 0$ V,
 $T_a = T_{opr}$

Item	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
LOCO clock cycle time	t_{LCyc}	3.78	4.16	4.63	μs	
LOCO clock oscillation frequency	f_{LOCO}	216	240	264	kHz	
LOCO clock oscillation stabilization wait time	t_{LOCOWT}	—	—	44	μs	Figure 5.6
IWDT-dedicated low-speed clock cycle time	t_{ILCyc}	7.57	8.33	9.26	μs	
IWDT-dedicated low-speed clock oscillation frequency	f_{ILOCO}	108	120	132	kHz	
IWDT-dedicated low-speed clock oscillation stabilization wait time	$t_{ILOCOWT}$	—	142	190	μs	Figure 5.7

**Figure 5.6 LOCO Clock Oscillation Start Timing****Figure 5.7 IWDT-dedicated Low-Speed Clock Oscillation Start Timing**

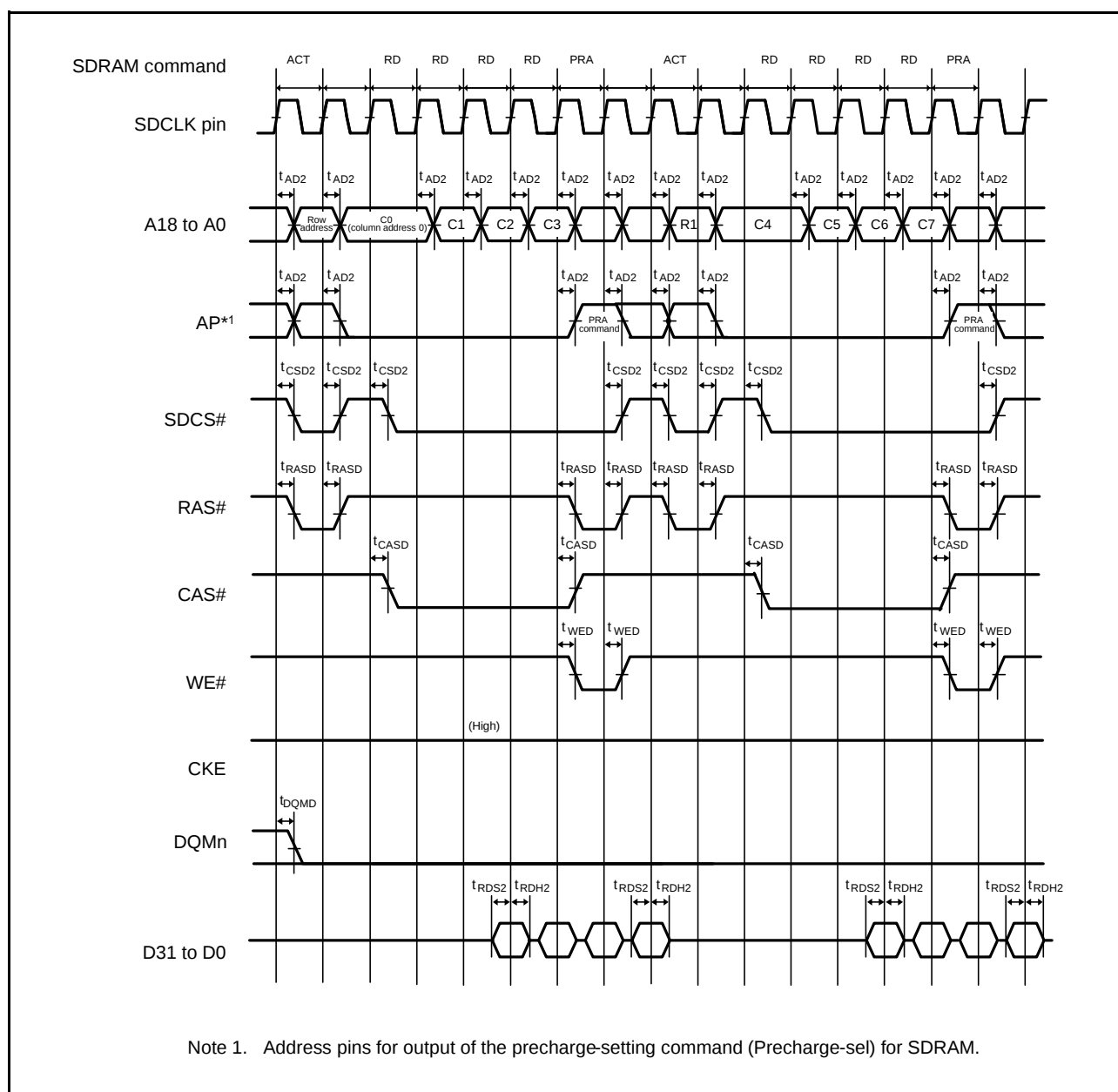


Figure 5.27 SDRAM Space Multiple Read Line Stride Bus Timing

5.3.7 Timing of On-Chip Peripheral Modules

Table 5.23 I/O Port Timing

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PV_{SS_USBA} = AV_{SS_USBA} = 0$ V,
 $PCLKA = 8$ to 120 MHz, $PCLKB = 8$ to 60 MHz, $T_a = T_{opr}$
 Output load conditions: $V_{OH} = V_{CC} \times 0.5$, $V_{OL} = V_{CC} \times 0.5$, $C = 30$ pF
 High-drive output is selected by the driving ability control register.

Item		Symbol	Min.	Max.	Unit*1	Test Conditions
I/O ports	Input data pulse width	t_{PRW}	1.5	—	t_{PBcyc}	Figure 5.33

Note 1. t_{PBcyc} : PCLKB cycle

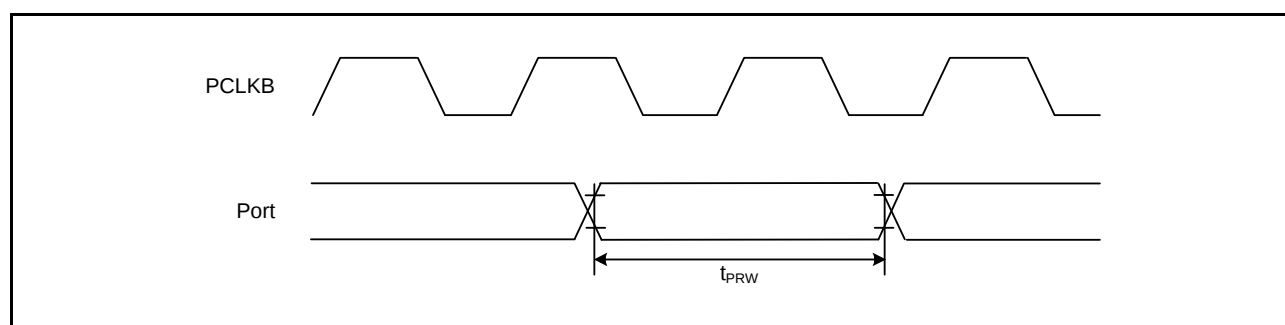
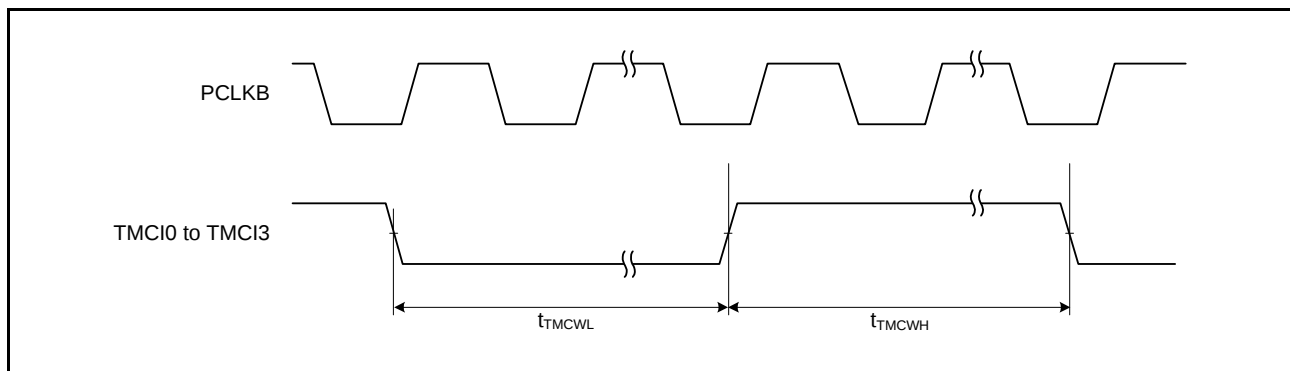

Figure 5.33 I/O Port Input Timing

Table 5.25 TMR Timing

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PVSS_USBA = AVSS_USBA = 0$ V,
 $PCLKA = 8$ to 120 MHz, $PCLKB = 8$ to 60 MHz, $T_a = T_{opr}$
 Output load conditions: $V_{OH} = V_{CC} \times 0.5$, $V_{OL} = V_{CC} \times 0.5$, $C = 30$ pF
 High-drive output is selected by the driving ability control register.

Item			Symbol	Min.	Max.	Unit*1	Test Conditions
TMR	Timer clock pulse width	Single-edge setting	t_{TMCWH} , t_{TMCWL}	1.5	—	t_{PBcyc}	Figure 5.36
		Both-edge setting		2.5	—		

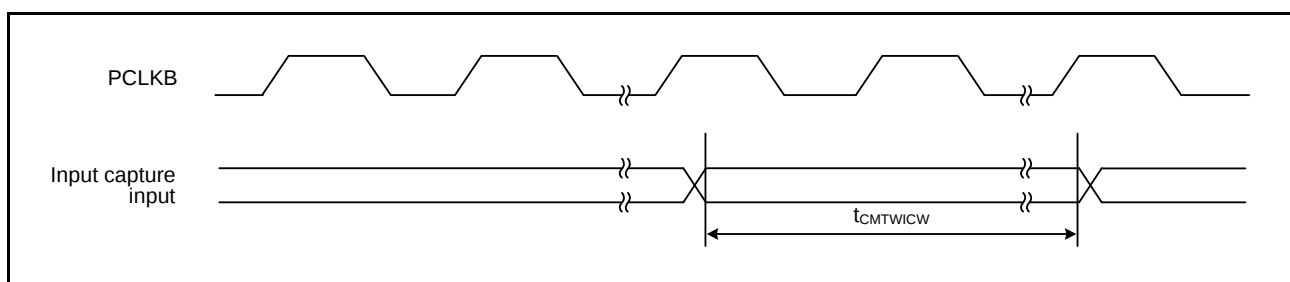
Note 1. t_{PBcyc} : PCLKB cycle

**Figure 5.36 TMR Clock Input Timing****Table 5.26 CMTW Timing**

Conditions: $V_{CC} = AVCC0 = AVCC1 = V_{CC_USB} = V_{BATT} = 2.7$ to 3.6 V, $2.7 \leq V_{REFH0} \leq AVCC0$,
 $V_{CC_USBA} = AVCC_USBA = 3.0$ to 3.6 V,
 $V_{SS} = AVSS0 = AVSS1 = V_{REFL0} = V_{SS_USB} = V_{SS1_USBA} = V_{SS2_USBA} = PVSS_USBA = AVSS_USBA = 0$ V,
 $PCLKA = 8$ to 120 MHz, $PCLKB = 8$ to 60 MHz, $T_a = T_{opr}$
 Output load conditions: $V_{OH} = V_{CC} \times 0.5$, $V_{OL} = V_{CC} \times 0.5$, $C = 30$ pF
 High-drive output is selected by the driving ability control register.

Item			Symbol	Min.	Max.	Unit*1	Test Conditions
CMTW	Input capture input pulse width	Single-edge setting	$t_{CMTWTICW}$	1.5	—	t_{PBcyc}	Figure 5.37
		Both-edge setting		2.5	—		

Note 1. t_{PBcyc} : PCLKB cycle

**Figure 5.37 CMTW Input Capture Input Timing**

REVISION HISTORY	RX71M Group Datasheet
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Rev.	Date	Description	
		Page	Summary
1.00	Jan 15, 2015	—	First edition, issued

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