

**Table 46. Power Control for Peripherals register (PCONP - address 0x400FC0C4) bit**

24	PCUART2	UART 2 power/clock control bit.	0
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**Table 41. Peripheral Clock Selection register 1 (PCLKSEL1 - address 0x400FC1AC) bit**

**Table 41. Peripheral Clock Selection register 1 (PCLKSEL1 - address 0x400FC1AC) bit description**

Bit	Symbol	Description	Reset value
1:0	PCLK_QEI	Peripheral clock selection for the Quadrature Encoder Interface.	00
3:2	PCLK_GPIOINT	Peripheral clock selection for GPIO interrupts.	00
5:4	PCLK_PCB	Peripheral clock selection for the Pin Connect block.	00
7:6	PCLK_I2C1	Peripheral clock selection for I <sup>2</sup> C1.	00
9:8	-	Reserved.	NA
11:10	PCLK_SSP0	Peripheral clock selection for SSP0.	00
13:12	PCLK_TIMER2	Peripheral clock selection for TIMER2.	00
15:14	PCLK_TIMER3	Peripheral clock selection for TIMER3.	00
17:16	PCLK_UART2	Peripheral clock selection for UART2.	00
19:18	PCLK_UART3	Peripheral clock selection for UART3.	00
21:20	PCLK_I2C2	Peripheral clock selection for I <sup>2</sup> C2.	00
23:22	PCLK_I2S	Peripheral clock selection for I <sup>2</sup> S.	00
25:24	-	Reserved.	NA
27:26	PCLK_RIT	Peripheral clock selection for Repetitive Interrupt Timer.	00
29:28	PCLK_SYSCON	Peripheral clock selection for the System Control block.	00
31:30	PCLK_MC	Peripheral clock selection for the Motor Control PWM.	00

**Table 42. Peripheral Clock Selection register bit values**

PCLKSEL0 and PCLKSEL1 individual peripheral's clock select options	Function	Reset value
00	PCLK_peripheral = CCLK/4	00
01	PCLK_peripheral = CCLK	
10	PCLK_peripheral = CCLK/2	
11	PCLK_peripheral = CCLK/8, except for CAN1, CAN2, and CAN filtering when "11" selects = CCLK/6.	

#### 14.4.7 ~~UARTn Line Control Register (U0LCR - 0x4000 C00C, U2LCR - 0x4009 800C, U3LCR - 0x4009 C00C)~~

The UnLCR determines the format of the data character that is to be transmitted or received.

Table 279: UARTn Line Control Register (U0LCR - address 0x4000 C00C, U2LCR - 0x4009 800C, U3LCR - 0x4009 C00C) bit description

Bit	Symbol	Value	Description	Reset Value
1:0	Word Length Select	00	5-bit character length	0
		01	6-bit character length	
		10	7-bit character length	
		11	8-bit character length	
2	Stop Bit Select	0	1 stop bit.	0
		1	2 stop bits (1.5 if UnLCR[1:0]=00).	
3	Parity Enable	0	Disable parity generation and checking.	0
		1	Enable parity generation and checking.	
5:4	Parity Select	00	Odd parity. Number of 1s in the transmitted character and the attached parity bit will be odd.	0
		01	Even Parity. Number of 1s in the transmitted character and the attached parity bit will be even.	
		10	Forced "1" stick parity.	
		11	Forced "0" stick parity.	
6	Break Control	0	Disable break transmission.	0
		1	Enable break transmission. Output pin UARTn TXD is forced to logic 0 when UnLCR[6] is active high.	
7	Divisor Latch Access Bit (DLAB)	0	Disable access to Divisor Latches.	0
		1	Enable access to Divisor Latches.	
31:8	-		Reserved, user software should not write ones to reserved bits. The value read from a reserved bit is not defined.	NA

**Table 273: UARTn Divisor Latch LSB register (U0DLL - address 0x4000 C000, U2DLL - 0x4009 8000, U3DLL -0x4009 C000 when DLAB = 1) bit description**

0x4009 C000 when DLAB = 1) bit description

Bit	Symbol	Description	Reset Value
7:0	DLLSB	The UARTn Divisor Latch LSB Register, along with the UnDLM register, determines the baud rate of the UARTn.	0x01
31:8	-	Reserved, user software should not write ones to reserved bits. The value read from a reserved bit is not defined.	NA

**Table 274: UARTn Divisor Latch MSB register (U0DLM - address 0x4000 C004, U2DLM - 0x4009 8004, U3DLM - 0x4009 C004 when DLAB = 1) bit description**

Table 274: UARTn Divisor Latch MSB register (U0DLM - address 0x4000 C004, U2DLM - 0x4009 8004, U3DLM - 0x4009 C004 when DLAB = 1) bit description

Bit	Symbol	Description	Reset Value
7:0	DLMSB	The UARTn Divisor Latch MSB Register, along with the U0DLL register, determines the baud rate of the UARTn.	0x00
31:8	-	Reserved, user software should not write ones to reserved bits. The value read from a reserved bit is not defined.	NA

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### 8.5.5 Pin Function Select Register 4 (PINSEL4 - 0x4002 C010)

The PINSEL4 register controls the functions of the lower half of Port 2. The direction control bit in the FIO2DIR register is effective only when the GPIO function is selected for a pin. For other functions, direction is controlled automatically.

Table 83. Pin function select register 4 (PINSEL4 - address 0x4002 C010) bit description

PINSEL4	Pin name	Function when 00	Function when 01	Function when 10	Function when 11	Reset value
1:0	P2.0	GPIO Port 2.0	PWM1.1	TXD1	Reserved	00
3:2	P2.1	GPIO Port 2.1	PWM1.2	RXD1	Reserved	00
5:4	P2.2	GPIO Port 2.2	PWM1.3	CTS1	Reserved <a href="#">[2]</a>	00
7:6	P2.3	GPIO Port 2.3	PWM1.4	DCD1	Reserved <a href="#">[2]</a>	00
9:8	P2.4	GPIO Port 2.4	PWM1.5	DSR1	Reserved <a href="#">[2]</a>	00
11:10	P2.5	GPIO Port 2.5	PWM1.6	DTR1	Reserved <a href="#">[2]</a>	00
13:12	P2.6	GPIO Port 2.6	PCAP1.0	RI1	Reserved <a href="#">[2]</a>	00
15:14	P2.7	GPIO Port 2.7	RD2	RTS1	Reserved	00
17:16	P2.8	GPIO Port 2.8	TD2	TXD2	ENET_MDC	00
19:18	P2.9	GPIO Port 2.9	USB_CONNECT	RXD2	ENET_MDIO	00
21:20	P2.10	GPIO Port 2.10	FINT0	NMI	Reserved	00

#### 14.4.4 UARTn Interrupt Enable Register (U0IER - 0x4000 C004, U2IER - 0x4009 8004, U3IER - 0x4009 C004 when DLAB = 0)

Table 275: UARTn Interrupt Enable Register (U0IER - address 0x4000 C004, U2IER - 0x4009 8004, U3IER - 0x4009 C004 when DLAB = 0) bit description

Bit	Symbol	Value	Description	Reset Value
0	RBR Interrupt Enable		Enables the Receive Data Available interrupt for UARTn. It also controls the Character Receive Time-out interrupt.	0
		0	Disable the RDA interrupts.	
		1	Enable the RDA interrupts.	
1	THRE Interrupt Enable		Enables the THRE interrupt for UARTn. The status of this can be read from UnLSR[5].	0
		0	Disable the THRE interrupts.	
		1	Enable the THRE interrupts.	
2	RX Line Status Interrupt Enable		Enables the UARTn RX line status interrupts. The status of this interrupt can be read from UnLSR[4:1].	0
		0	Disable the RX line status interrupts.	
		1	Enable the RX line status interrupts.	
7:3	-		Reserved, user software should not write ones to reserved bits. The value read from a reserved bit is not defined.	NA
8	ABEOIntEn		Enables the end of auto-baud interrupt.	0
		0	Disable end of auto-baud Interrupt.	
		1	Enable end of auto-baud Interrupt.	

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#### 6.5.1 Interrupt Set-Enable Register 0 register (ISER0 - 0xE000 E100)

Table 52. Interrupt Set-Enable Register 0 register (ISER0 - 0xE000 E100)

Bit	Name	Function
0	ISE_WDT	Watchdog Timer Interrupt Enable. Write: writing 0 has no effect, writing 1 enables the interrupt. Read: 0 indicates that the interrupt is disabled, 1 indicates that the interrupt is enabled.
1	ISE_TIMER0	Timer 0 Interrupt Enable. See functional description for bit 0.
2	ISE_TIMER1	Timer 1. Interrupt Enable. See functional description for bit 0.
3	ISE_TIMER2	Timer 2 Interrupt Enable. See functional description for bit 0.
4	ISE_TIMER3	Timer 3 Interrupt Enable. See functional description for bit 0.
5	ISE_UART0	UART0 Interrupt Enable. See functional description for bit 0.
6	ISE_UART1	UART1 Interrupt Enable. See functional description for bit 0.
7	ISE_UART2	UART2 Interrupt Enable. See functional description for bit 0.

Table 270 UART 023 Register Map

Generic Name	Description	Access	Reset value <sup>[1]</sup>	UARTn Register Name & Address
RBR (DLAB =0)	Receiver Buffer Register. Contains the next received character to be read.	RO	NA	U0RBR - 0x4000 C000 U2RBR - 0x4009 8000 U3RBR - 0x4009 C000
THR (DLAB =0)	Transmit Holding Register. The next character to be transmitted is written here.	WO	NA	U0THR - 0x4000 C000 U2THR - 0x4009 8000 U3THR - 0x4009 C000
DLL (DLAB =1)	Divisor Latch LSB. Least significant byte of the baud rate divisor value. The full divisor is used to generate a baud rate from the fractional rate divider.	R/W	0x01	U0DLL - 0x4000 C000 U2DLL - 0x4009 8000 U3DLL - 0x4009 C000
DLM (DLAB =1)	Divisor Latch MSB. Most significant byte of the baud rate divisor value. The full divisor is used to generate a baud rate from the fractional rate divider.	R/W	0x00	U0DLM - 0x4000 C004 U2DLM - 0x4009 8004 U3DLM - 0x4009 C004
IER (DLAB =0)	Interrupt Enable Register. Contains individual interrupt enable bits for the 7 potential UART interrupts.	R/W	0x00	U0IER - 0x4000 C004 U2IER - 0x4009 8004 U3IER - 0x4009 C004
IIR	Interrupt ID Register. Identifies which interrupt(s) are pending.	RO	0x01	U0IIR - 0x4000 C008 U2IIR - 0x4009 8008 U3IIR - 0x4009 C008
FCR	FIFO Control Register. Controls UART FIFO usage and modes.	WO	0x00	U0FCR - 0x4000 C008 U2FCR - 0x4009 8008 U3FCR - 0x4009 C008
LCR	Line Control Register. Contains controls for frame formatting and break generation.	R/W	0x00	U0LCR - 0x4000 C00C U2LCR - 0x4009 800C U3LCR - 0x4009 C00C
LSR	Line Status Register. Contains flags for transmit and receive status, including line errors.	RO	0x60	U0LSR - 0x4000 C014 U2LSR - 0x4009 8014 U3LSR - 0x4009 C014
SCR	Scratch Pad Register. 8-bit temporary storage for software.	R/W	0x00	U0SCR - 0x4000 C01C U2SCR - 0x4009 801C U3SCR - 0x4009 C01C

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Chapter 14: LPC17xx UART0/2/3

Table 280: UARTn Line Status Register (U0LSR - address 0x4000 C014, U2LSR - 0x4009 8014, U3LSR - 0x4009 C014) bit description

Bit	Symbol	Value	Description	Reset Value
0	Receiver Data Ready (RDR)		UnLSR0 is set when the UnRBR holds an unread character and is cleared when the UARTn RBR FIFO is empty.	0
		0	The UARTn receiver FIFO is empty.	
		1	The UARTn receiver FIFO is not empty.	
1	Overrun Error (OE)		The overrun error condition is set as soon as it occurs. An UnLSR read clears UnLSR1. UnLSR1 is set when UARTn RSR has a new character assembled and the UARTn RBR FIFO is full. In this case, the UARTn RBR FIFO will not be overwritten and the character in the UARTn RSR will be lost.	0
		0	Overrun error status is inactive.	
		1	Overrun error status is active.	
2	Parity Error (PE)		When the parity bit of a received character is in the wrong state, a parity error occurs. An UnLSR read clears UnLSR[2]. Time of parity error detection is dependent on UnFCR[0]. <b>Note:</b> A parity error is associated with the character at the top of the UARTn RBR FIFO.	0
		0	Parity error status is inactive.	
		1	Parity error status is active.	
3	Framing Error (FE)		When the stop bit of a received character is a logic 0, a framing error occurs. An UnLSR read clears UnLSR[3]. The time of the framing error detection is	0