

# LPC1850 - Connectors and Jumpers

## J5 Connector (GPIO/I2C/ADC/CAN/I2S/SPI/UART)

Pins	GPIO pin	Additional functionality	Ports
1	3.3V		
2	GND		
3	USB1_DP	USB1_DP	<b>USB1</b>
4	USB1_DM	USB1_DM	
5	5V		
6	PF_8	GPIO0[ 22 ], CTIN2	<b>GPIO</b>
7	PF_9	GPIO0[ 24 ], CTOUT1	
8	P2_5	ADCTRIG1	<b>ADC</b>
9	ADC0	ADC0	
10	ADC1	ADC1	
11	ADC2	ADC2	
12	ADC3	ADC3	
13	ADC4	ADC4	
14	ADC5	ADC5	
15	ADC6	ADC6	
16	ADC7	ADC7	
17	WAKEUP0	WAKEUP0	<b>CAN</b>
18	WAKEUP1	WAKEUP1	
19	WAKEUP2	WAKEUP2	
20	WAKEUP3	WAKEUP3	
21	P3_1	CAN1_RD/I2S0_TX_WS	
22	P3_2	CAN1_TD/I2S0_TXSDA	

23	P4_4	DAC	<b>I2S</b>	
24	CLK_1	CLKOUT		
25	PA_0	I2S1_RX_MCLK		
26	P8_8	I2S1_TX_MCLK		
27	P4_7	I2S0_TX_SCK		
28	P6_0	I2S0_RX_SCK		
29	P3_0	I2S0_RX_MCLK		
30	CLK_2	I2S1_TX_MCLK		
31	P6_1	I2S0_RX_WS, GPIO3[ 0 ]		
32	P3_4	I2S0_TX_WS, GPIO1[ 14 ]		
33	P6_2	I2S0_RX_SDA, GPIO3[ 1 ]		
34	PC_12	I2S0_TX_SDA, GPIO6[ 11 ]		
35	P3_3	SSP0_SCK		<b>SPI</b>
36	P3_6	SSP0_SSEL, GPIO0[ 6 ]		
37	P3_7	SSP0_MISO, GPIO5[ 1 ]		
38	P3_8	SSP0_MOSI, GPIO5[ 2 ]		
39	PF_10	U0_TXD, GPIO0[ 25 ]	<b>UART0</b>	
40	PF_11	U0_RXD, GPIO0[ 26 ]		
41	PA_1	GPIO4[ 8 ], QEI_IDX		
42	PA_2	GPIO4[ 9 ], QEI_PHB		
43	PA_3	GPIO4[ 10 ], QET_PHA		
44	PF_11	GPIO, U0RDX, SDIO_V2		
45	ENET_TX03	GPIO, SD_V2, ADC, USB1		
46	GND			
47	3.3V			

48	PF_0	SSP0_SCK	<b>SPI0</b>
49	PF_1	SSP0_SSEL, GPIO0[ 17 ]	
50	PF_2	SSP0_MISO, UART, GPIO7[ 17 ]	
51	PF_3	SSP0_MOSI, UART, GPIO7[ 18 ]	
52	PF_4	SSP1_SCK	<b>SPI1</b>
53	PF_5	SSP1_SSEL, GPIO0[ 20 ]	
54	PF_6	SSP1_MISO, GPIO0[ 21 ]	
55	PF_7	SSP1_MOSI, GPIO0[ 22 ]	
56	PC_13	U1_TDX, GPIO6[ 12 ]	<b>UART1</b>
57	PC_14	U1_RDX, GPIO6[ 7 ]	
58	SCL	I2C0_SCL	<b>I2C0</b>
59	SDA	I2C0_SDA	
60	PF_10	SD_WP, ADC, GPIO, U0_TXD	<b>SDIO, UART0</b>
61	SD_DAT3	SD_DAT3, USB_D1	
62	SD_DAT2	SD_DAT2, USB_D2	
63	SD_DAT1	SD_DAT1, USB_D3	
64	SD_DAT0	SD_DAT0, USB_D4	
65	PC_10	SD_CMD, GPIO6[ 9 ], USB	
66	ENET_RX_CLK	SD_CLK, ADC1, USB1	
67	ENET_RX_DV	SD_CD, USB1, ULPI	
68	ENET_TXD2	SD_RST, GPIO6[ 1 ]	

### **J6 Connector(LCD/GPIO/PWM/QEI/I2C1/UART3/USB1/ADC/SPI)**

Pins	GPIO pin	Additional functionality	Ports
1	+3.3V	3.3V	

2	GND	GND	
3	P4_5	LCDFP, GPIO2[ 5 ]	<b>LCD</b>
4	P4_6	LCDENABLE, GPIO2[ 6 ]	
5	P4_7	LCDDCLK	
6	P7_0	LCLE, GPIO3[ 8 ]	
7	P7_6	LCDLP, GPIO3[ 14 ]	
8	P7_7	LCDPWR, GPIO3[ 15 ]	
9	P4_1	LCDVD0, GPIO2[ 1 ]	
10	P4_4	LCDVD1, GPIO2[ 4 ]	
11	P4_3	LCDVD2, GPIO2[ 3 ]	
12	P4_2	LCDVD3, GPIO2[ 2 ]	
13	P8_7	LCDVD4, GPIO4[ 7 ]	
14	P8_6	LCDVD5, GPIO4[ 6 ]	
15	P8_5	LCDVD6, GPIO4[ 5 ]	
16	P8_4	LCDVD7, GPIO4[ 3 ]	
17	P7_5	LCDVD8, GPIO3[ 13 ]	
18	P4_8	LCDVD9, GPIO5[ 3 ]	
19	P4_10	LCDVD10, GPIO5[ 5 ]	
20	P4_9	LCDVD11, GPIO5[ 4 ]	
21	P8_3	LCDVD12, GPIO4[ 3 ]	
22	P8_6	LCDVD13, GPIO5[ 26 ]	
23	P8_5	LCDVD14, GPIO5[ 25 ]	
24	P8_4	LCDVD15, GPIO5[ 24 ]	
25	P7_4	LCDVD16, GPIO3[ 12 ]	
26	P7_3	LCDVD17, GPIO3[ 11 ]	

27	P7_2	LCDVD18, GPIO3[ 10 ]	
28	P7_1	LCDVD19, GPIO3[ 9 ]	
29	P8_3	LCDVD20, GPIO5[ 22 ]	
30	P8_2	LCDVD21, GPIO5[ 12 ]	
31	P8_1	LCDVD22, GPIO5[ 21 ]	
32	P8_0	LCDVD23, GPIO5[ 20 ]	
33	P9_5	GPIO5[ 18 ], MCOA1	
34	+5V	5V	
35	P3_3	SSP0_SCK	<b>SPI, I2C1, UART3</b>
36	P3_6	SSP0_SSEL, GPIO0[ 6 ]	
37	P3_7	SSP0_MISO, GPIO5[ 1 ]	
38	P3_8	SSP0_MOSI, GPIO5[ 2 ]	
39	P2_3	I2C1SDA, U3TXD, GPIO12	
40	P2_4	I2C1SCL, U3RXD, GPIO13	
41	+5V	5V	
42	GND	GND	
43	USB1_DP	USB1_DP	<b>USB1</b>
44	USB1_DM	USB1_DM	
45	GND	GND	
46	P6_3	GPIO3[ 2 ]	<b>PWM, QEI, CTOUT</b>
47	+3.3V	3.3V	
48	GND	GND	
49	P4_0	GPIO2[ 0 ], MCOA0	
50	P8_0	GPIO4[ 0 ], MCI2	
51	ENET_RX03	GPIO4[ 14 ], MCOB2	

52	PA_1	GPIO4[ 8 ], QEI_IDX	
53	PA_2	GPIO4[ 9 ], QEI_PHB	
54	PA_3	GPIO4[ 10 ], QEI_PHA	
55	PA_4	GPIO5[ 19 ], CTOUT_9	
56	P9_4	GPIO5[ 17 ], MCOB0	
57	P1_4	GPIO0[ 11 ], CTOUT_9	
58	P9_1	GPIO4[ 13 ], MCOA2	
59	ENETRxD2	MCOA0, GPIO4[ 15 ]	
60	P8_1	MCL1, GPIO4[ 1 ]	
61	P8_2	MCL0, GPIO4[ 2 ]	
62	P9_0	GPIO4[ 12 ], MCABORT	
63	ENET_COL	MCOB1	
64	ADC0	ADC0	
65	ADC1	ADC1	
66	ADC2	ADC2	
67	ADC3	ADC3	
68	ADC4	ADC4	