

PC-I2C/SPI/GPIO Interface Adapter DLN-2

Connectors and Jumpers

The DLN-2 board is equipped with 3 connectors, which are used to connect user peripherals. Signals, ground and power lines are output on each of the connectors.

J2 Connector

Pin # ¹	GPIO Pin	Additional Functionality
1	C.6 (22) ²	I2C_SDA
2	GND	
3	VCC	Configured by JP1
4	C.7 (23)	I2C_SCL

J3 Connector

Pin #	GPIO Pin	Additional Functionality
1	A.0 (0)	SPI_SS1 / ADC4
2	A.1 (1)	SPI_MOSI
3	A.2 (2)	SPI_SS2 / PWM0
4	A.3 (3)	SPI_MISO
5	A.4 (4)	SPI_SS3 / ADC0
6	A.5 (5)	SPI_SS0
7	A.6 (6)	SPI_SS4 / PLS_CNT1/ ADC1
8	A.7 (7)	SPI_SCK
9	VCC	Configured by JP2
10	VCC	Configured by JP2
11	GND	
12	GND	
13	C.0 (16)	ADC3
14	C.1 (17)	
15	C.2 (18)	ADC2
16	C.3 (19)	PWM1 / ADC6
17	GND	
18	GND	
19	NC	

¹ The physical connector pin number.

² The C.6 means Pin 6 of the Port C and the number in () means the number of GPIO pin which can be used in software.

PC-I2C/SPI/GPIO Interface Adapter DLN-2

20	NC	
21	C.4 (20)	
22	C.5 (21)	
23	C.6 (22)	I2C_SDA
24	C.7 (23)	I2C_SCL
25	B.0 (8)	ADC5
26	B.1 (9)	ADC7
27	B.2 (10)	PLS_CNT0
28	B.3 (11)	
29	B.4 (12)	
30	B.5 (13)	
31	B.6 (14)	
32	B.7 (15)	
33	D.0 (24)	
34	D.1 (25)	
35	D.2 (26)	
36	D.3 (27)	
37	D.4 (28)	
38	D.5 (29)	
39	D.6 (30)	
40	D.7 (31)	

PC-I2C/SPI/GPIO Interface Adapter DLN-2

J4 Connector

Pin #	GPIO Pin	Additional Functionality
1	A.1 (1)	SPI_MOSI
2	A.0 (0)	SPI_SS1 / ADC4
3	A.3 (3)	SPI_MISO
4	A.2 (2)	SPI_SS2 / PWM0
5	A.5 (5)	SPI_SS0
6	A.4 (4)	SPI_SS3 / ADC0
7	A.7 (7)	SPI_SCK
8	A.6 (6)	SPI_SS4 / PLS_CNT1 / ADC1
9	VCC	Configured by JP3
10	GND	

JP1 – The voltage jumper for J2 I2C connector, which can be used to change voltage supply to 3.3V or 5V.

JP2 – The voltage jumper for J3 connector, which can be used to change voltage supply for external device to 3.3V or 5V.

JP3 – The voltage jumper for J4 connector, which can be used to change voltage supply for external device to 3.3V or 5V.

JP4 – The bootloader jumper.

JP5 – The SCL line pullup jumper.

JP6 – The SDA line pullup jumper.

PC-I2C/SPI/GPIO Interface Adapter DLN-2

Graphical View

