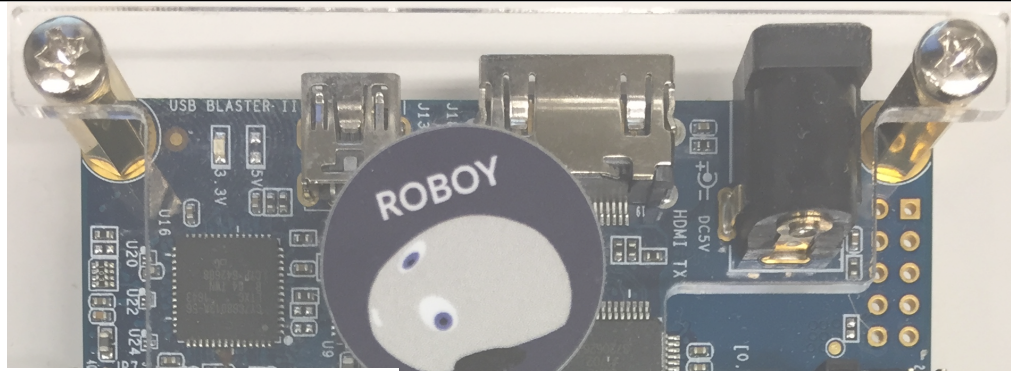


# roboy de10-nano-soc PINOUT

## LEGEND

SCK[0-1]	SPI clock lines
MOSI[0-1]	SPI Master Out Slave In lines
MISO[0-1]	SPI Master In Slave Out
SS0[0-5]	SPI Slave Select lines of SPI bus 0 (the [] is the motor ID)
SS1[6-11]	SPI Slave Select lines of SPI bus 1 (the [] is the motor ID)
SCL[0-4]	I2C clock lines for 5 cores
SDA[0-4]	I2C data lines for 5 cores
GP0[0-1]	GPIO pins controlled by I2C core 0
GP1[0-1]	GPIO pins controlled by I2C core 1
GP2[0-1]	GPIO pins controlled by I2C core 2
SCK[ESP]	SPI clock line for ESP8266
MOSI[ESP]	SPI Master Out Slave In line for ESP8266
SS[ESP]	SPI Slave Select line for ESP8266
LS[0-31]	DarkRoom Lighthouse Sensor lines
LS_TX	DarkRoomOOTXDecoder uart TX



GP1 [0] [5] GPIO_1[34]	40	39	GPIO_1[34] GP0 [0]	SCL[0] GPIO_0[0]	1	2	GPIO_0[1] SDA[0]
GP1 [1] [3] GPIO_1[32]	38	37	GPIO_1[32] GP0 [1]	SCL[1] GPIO_0[2]	3	4	GPIO_0[3] SDA[1]
GP1 [2] [1] GPIO_1[30]	36	35	GPIO_1[30] GP0 [2]	SCL[2] GPIO_0[4]	5	6	GPIO_0[5] SDA[2]
SDA [3] [6] GPIO_1[28]	34	33	GPIO_1[28] SCL[3]	MOSI [ESP] GPIO_0[6]	7	8	GPIO_0[7] SCK [ESP]
SDA [4] [2] GPIO_1[26]	32	31	GPIO_1[26] SCL[4]	SS [ESP] GPIO_0[8]	9	10	GPIO_0[9] LS_TX
GND	30	29	3V	5V	11	12	GND
LS [15] [2] GPIO_1[25]	28	27	GPIO_1[25] LS [14]	LS [16] GPIO_0[10]	13	14	GPIO_0[11] LS [17]
LS [13] [3] GPIO_1[23]	26	25	GPIO_1[23] LS [12]	LS [18] GPIO_0[12]	15	16	GPIO_0[13] LS [19]
LS [11] [1] GPIO_1[21]	24	23	GPIO_1[21] LS [10]	LS [20] GPIO_0[14]	17	18	GPIO_0[15] LS [21]
LS [9] [6] GPIO_1[19]	22	21	GPIO_1[19] LS [8]	LS [22] GPIO_0[16]	19	20	GPIO_0[17] LS [23]
LS [7] [1] GPIO_1[17]	20	19	GPIO_1[17] LS [6]	LS [24] GPIO_0[18]	21	22	GPIO_0[19] LS [25]
LS [5] [1] GPIO_1[15]	18	17	GPIO_1[15] LS [4]	LS [26] GPIO_0[20]	23	24	GPIO_0[21] LS [27]
LS [3] [1] GPIO_1[13]	16	15	GPIO_1[13] LS [2]	LS [28] GPIO_0[22]	25	26	GPIO_0[23] LS [29]
LS [1] [1] GPIO_1[11]	14	13	GPIO_1[11] LS [0]	LS [30] GPIO_0[24]	27	28	GPIO_0[25] LS [31]
GND	12	11	5V	3.3V	29	30	GND
SS0 [5] [9] GPIO_1[9]	10	9	GPIO_1[9] SS0 [4]	SS1 [6] GPIO_0[26]	31	32	GPIO_0[27] SS1 [7]
SS0 [3] [7] GPIO_1[7]	8	7	GPIO_1[7] SS0 [2]	SS1 [8] GPIO_0[28]	33	34	GPIO_0[29] SS1 [9]
SS0 [1] [5] GPIO_1[5]	6	5	GPIO_1[5] SS0 [0]	SS1 [10] GPIO_0[30]	35	36	GPIO_0[31] SS1 [11]
GPIO_1[3]	4	3	GPIO_1[3] SCK [0]	GPIO_0[32]	37	38	GPIO_0[33] SCK [1]
MISO [0] [1] GPIO_1[1]	2	1	GPIO_1[1] MOSI [0]	MISO [1] GPIO_0[34]	39	40	GPIO_0[35] MOSI [1]

