

# PiBot Controller Rev2.0

Feature	Arduino Pin	Mega2560 IO	PiBot Pin
USART RXD0	0	PE0	0
USART TXD0	1	PE1	1
I2C_SCL	21	PD0	21
I2C_SDA	20	PD1	20
X_STEP_PIN	24	PA2	24
X_DIR_PIN	23	PA1	23
X_ENABLE_PIN	22	PA0	22
X_MIN_PIN	62	PK0	62
X_MAX_PIN	63	PK1	63
Y_STEP_PIN	27	PA5	27
Y_DIR_PIN	26	PA4	26
Y_ENABLE_PIN	25	PA3	25
Y_MIN_PIN	64	PK2	64
Y_MAX_PIN	65	PK3	65
Z_STEP_PIN	15	PJ0	15
Z_DIR_PIN	14	PJ1	14
Z_ENABLE_PIN	39	PG2	39
Z_MIN_PIN	66	PK4	66
Z_MAX_PIN	67	PK5	67
E0_STEP_PIN	32	PC5	32
E0_DIR_PIN	31	PC6	31
E0_ENABLE_PIN	30	PC7	30
E1_STEP_PIN	35	PC2	35
E1_DIR_PIN	34	PC3	34
E1_ENABLE_PIN	33	PC4	33
PiBot Z PROBE PIN	68	PK6	68
FAN1_PIN	6	PH3	6
FAN2_PIN	7	PH4	7
PS_ON_PIN	17	PH0	17
HEATER_0_PIN	5	PE3	5
HEATER_1_PIN	4	PG5	4
HEATER_2_PIN	2	PE4	2
TEMP_0_PIN	A2 or A3	PF2 or PF3	A2 or A3
TEMP_1_PIN	A0 or A1	PF0 or PF1	A0 or A1
TEMP_2_PIN	A4 or A5	PF4 or PF5	A4 or A5
SDCARDDETECT	40	PG1	40
SDSS	53	PB0	53
SCK_PIN	52	PB1	52
MISO_PIN	50	PB3	50
MOSI_PIN	51	PB2	51
BEEPER_PIN	16	PH1	16
LCD_DISPLAY_RS_PIN	43	PL6	43
LCD_DISPLAY_ENABLE_PIN	42	PL7	42
LCD_DISPLAY_D4_PIN	19	PD2	19
LCD_DISPLAY_D5_PIN	18	PD3	18
LCD_DISPLAY_D6_PIN	38	PD7	38
LCD_DISPLAY_D7_PIN	41	PG0	41
KEY_ENCODER_A	37	PC0	37
KEY_ENCODER_B	36	PC1	36
KEY_ENCODER_CLICK	69	PK7	69
KEY_BUTTON_OK	47	PL2	47

KEY BUTTON NEXT	46	PL3	46
KEY BUTTON PREVIOUS	45	PL4	45
KEY BUTTON BACK	44	PL5	44
KEY BUTTON SD PRINT	NO	PG4	70
LCD R/W	NO	PJ2	72

## PiBotGRBL CNC PinMap

X STEP PIN	24	PA2	24
X DIR PIN	23	PA1	23
X ENABLE PIN	22	PA0	22
Y STEP PIN	27	PA5	27
Y DIR PIN	26	PA4	26
Y ENABLE PIN	25	PA3	25
Z STEP PIN	15	PJ0	15
Z DIR PIN	14	PJ1	14
Z ENABLE PIN	39	PG2	39
X MIN PIN	62	PK0	62
X MAX PIN	63	PK1	63
Y MIN PIN	64	PK2	64
Y MAX PIN	65	PK3	65
Z MIN PIN	66	PK4	66
Z MAX PIN	67	PK5	67
CYCLE INPUT PIN	12	PB6	12
FEED HOLD INPUT PIN	13	PB7	13
RESET INPUT PIN	11	PB5	11
PI PROBE PIN	10	PB4	10
SPINDLE ENABLE PIN	48	PL1	48
SPINDLE DIR PIN	49	PL0	49
COOLANT FLOOD PIN	3	PE5	3
COOLANT MIST PIN	8	PH5	8
SPINDLE PWM PIN	9	PH6	9

## PiBot Define Pins

RESERVED IO	NO	PG3	71
RESERVED IO	NO	PJ3	73
RESERVED IO	NO	PJ7	74
RESERVED IO	NO	PJ4	75
RESERVED IO	NO	PJ5	76
RESERVED IO	NO	PJ6	77
RESERVED IO	NO	PE2	78
RESERVED IO	NO	PE6	79
RESERVED IO	NO	PE7	80
RESERVED IO	NO	PD4	81
RESERVED IO	NO	PD5	82
RESERVED IO	NO	PD6	83
RESERVED IO	NO	PH2	84
RESERVED IO	NO	PH7	85



