PinUsage

RPI Teensy v.2020.04

IN Pins (PWM)

- 6 pins total

PWM	IN_U0	IN_V0	IN_W0	IN_U1	IN_V1	IN_W1
Teensy 3.2	23	22	10	5	6	9
Teensy 4.0	23	22	10	5	6	9

- Alternative (6 Pins under the Teensy 4.0, far side)

PWM	IN_U0	IN_V0	IN_W0	IN_U1	IN_V1	IN_W1
Teensy 3.2	23	22	10	5	6	9
Teensy 4.0	34	35	36	37	38	39

I2C Pins

- 2 Pins

I2C	SCL0	SDA0	SCL1	SDA1
Teensy 3.2	19	18	29	30
Teensy 4.0	19	18	24	25

UART Pins(Hardware Serial)

- 2 pins

UART	RX1 & HALL_U1	TX1 & HALL_V1
Teensy 3.2	0	1
Teensy 4.0	0	1

SPI

- 5 Pins

SPI	MISO & HALL_U0	MOSI	SCK	CS0 & HALL_W0	CS1 & HALL_V1
Teensy 3.2	12	11	13	2	14
Teensy 4.0	12	11	13	2	14

SERVO Pins

- 2 pins

SERVO PWM	SERVO_1	SERVO_2
Teensy 3.2	3	4
Teensy 4.0	3	4

ADC Pins

*6 Pins. It is important to make sure each motor operates from a different ADC module.

ADC	IS_U0	IS_V0	IS_W0	IS_U1	IS_V1	IS_W1
Teensy 3.2	15	20	21	27	16	17
Teensy 4.0	15	20	21	28	16	17

INH Pins

- 4 Pins. 3 pins for Motor0, 1 pin for Motor1

INH	INH_U0	INH_V0	INH_W0	INH_U1	INH_V1	INH_W1
Teensy 3.2	26	33	31	25	8	28
Teensy 4.0	29	32	27	31	8	30

HALL Pins

- 6 Pins (They are interconnected)

HALL	HALL_U0 & MISO	HALL_V0 & CS1	HALL_W0 & CS0	HALL_U1 + RX	HALL_V1 + TX	HALL_W1
Teensy 3.2	12	14	2	1	0	7
Teensy 4.0	12	14	2	1	0	7