



Enc_Roll_A(IR_ROLL_LEFT)

Enc_Roll_B(IR_ROLL_RIGHT)

GND

GND

Enc_Pitch_A

Enc_Pitch_B

Buzzer

Pwm_Pitch_1

Pwm_Pitch_2

E_Pwm_Pitch

E_Pwm_Roll

Pwm_Roll_1

Arduino Pro Micro

TX

RX

GND

GND

D2/INT1/SDA

D3/INT0/SCL

D4/A6

D5

D6/A7

D7

D8/A8

D9/A9

RAW

GND

RST

5V

A3/D21

A2/D20

A1/D19

A0/D18

SCK/D15

D14/MISO

D16/MOSI

D10/A10

GND

+5V

Yoke_Out

Yoke_PL

Yoke_CLK

INT_PL(IR_PITCH_UP)

INT_CLK(IR_PITCH_DOWN)

INT_OUT(CALIB_BUTT)

Pwm_Roll_2

Sensor/Buttons

INT_IR_P_DOWN

INT_IR_P_UP

INT_IR_R_LEFT

INT_IR_R_RIGHT

INT_CALIBRATION

GND

INT_POWER_MEAS

GND

1

2

3

1

2

3

1

2

3

1

2

2

1

2

IR_PITCH_DOWN

IR Pitch Down

IR_PITCH_UP

IR Pitch Up

IR_ROLL_LEFT

IR Roll Left

IR_ROLL_RIGHT

IR Roll Right

CALIBRATION

Calibration Button

POWER_MEASURE

+ 24V

GND

Power Measure (UNUSED!)

NOTE! Leave 74HC165 empty and use jumper wires!

INT_PL(IR_PITCH_UP)

INT_CLK(IR_PITCH_DOWN)

INT_CALIBRATION

(INT_POWER_MEAS)

1

2

4

5

6

7

8

PL#

CP

D4

D5

D6

D7

Q7#

GND

16

15

14

13

12

11

10

9

+5V

GND

(INT_IR_R_RIGHT)

(INT_IR_R_LEFT)

INT_IR_P_UP

INT_IR_P_DOWN

INT_OUT(CALIB_BUTT)

TITLE:

Main PCB (Modified, no 74HC165)

REV: 2.1

EasyEDA

Company: Gagagu / Barsk

Sheet: 1/1

Date: 2025-11-04

Drawn By: