Motor Driver Board

Rev V2.0

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LOGO1

Keywish

keywish_logo

T1 — Test

T2 — Test

T3 — Test

Ir Obstacle Avoidance

Bluetooth Module

GPIO

Uart

PC

USB

Li-Battery 12V

12v Charger

Keywish UNO

TB6612

PWM

I2C

Master I2C

3-axis-Gyro

3-axis-Accel

MPU6050 module

VCC_12V VCC_5V

P1
C2 C3 C4 C1
0.1UF 0.1UF 47UF/35V 0.1UF

1
2
3
4
5
6
7

P2
1
2
3 D13/Servo
4 D12 Left_Encoder_A
5 ~D11
6 ~D10 AIN2
7 ~D9 Righ_Encoder_A
8 D8 Buzzer
IR_IN

VCC_5V

P3
7
6
5
4
3
2
1
IrObstacleAvoidance

P4
A0 1
A1 2
A2 3
A3 4
A4 5
A5 6

RGB_IN
SDA
SCL

P5
1 D7
2 ~D6 STANBY
3 D5 PWMB
4 D4 PWMA
5 ~D3 BIN1
6 D2 AIN1
7 D1 BIN2
8 D0 TXD
RXD

AMS1117 VCC_12V
GND OUT IN

1 2 3

C6 C7
104 47UF/35V

D13/servo
P6
1
2
3
servo

R1
2.2k

D1
RED_LED

VCC_5V VCC_3V3

C5
0.1UF

U1
1 IN OUT 5
2 GND
3 EN NC/FB 4
SP6205

0.1UF C8

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Title
Extend/Power

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VCC_5V

RGB1
WS2812
1 VDD IN 3
2 OUT VSS 4

RGB_IN

VCC_5V

RGB2
WS2812
1 VDD IN 3
2 OUT VSS 4

VCC_5V

IR1
IR
R2
10K
IR_IN
VCC_5V
C9
0.1UF

VCC_5V

J1
MPU6050
1
2
3
4
5
6
7
8

SDA
SCL

VCC_5V

D2 SS34
B1
Buzzer
R3
0R
C
Q1
B   E
NPN
SS8550

R6
0R
Buzzer

VCC_5V

R4
10K
VCC_3V3

RXD
D3 SS34
TXD

D4
BLUE_LED
1k R5

U2
BLE_JDY-16
1 STAT   PWM4 16
2 RXD   PWM3 15
3 TXD   PWM2 14
4 GND   PWM1 13
5 VCC   IO4 12
6 SLED   IO3 11
7 PC   IO2 10
8 RESET IO1 9

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Bluetooth/MPU6050/IR

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TB6612

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