J7 Header – Female

J10 Header – Female
+5V

U3
16x2 Character LCD
SKU:FIT0127
Vsds Vdd Vo RS R/W E DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7 A/Vee K
P2_5 P2_6 P2_4 P2_0 P2_1 P2_2 P2_3
+5V +5V

Screw 04–Header (2x)
J2
Jack_Power
J6
54-00287

C1
0.1uF 25V
+5V
C2
1uF 25V

J12
PPTC061LFBN-RC
Motor1–Output_A
Motor1–Output_B
MotorPowerInPut

U2
SN754410NE
VCC1 16
VCC2 8 MotorPowerInPut
1,2EN
1A   1Y 3 Motor1–Output_A
2A   2Y 6 Motor1–Output_B
3,4EN 3Y 11
3A   4Y 14 Motor2–Output_A
4A   Motor2–Output_B
GND 13
GND_1 4
GND_2 5
GND_3 12

J8
Screw 02–Header

U1
CY8CKIT-059
KP0_1 1   74 UART_TX
KP0_0 2   73 UART_RX
KP3_6 3   72 I2C_SDA
KP3_5 4   71 I2C_SCL
KP3_4 5   70 KP12_5
KP3_0 6   69 GND
GND 7   68 VBUS
Empty1 8   67 Empty8
Empty2 9   66 Empty7
Empty3 10   65 Empty6
Empty4 11   64 Empty5
GND 12   63 Vdd
P3_0 13   62 GND
P3_1 14   61 P1_7
P3_2 15   60 P1_6
P3_3 16   59 P1_5
P3_4 17   58 P1_4
P3_5 18   57 P1_3
P3_6 19   56 P1_2
P3_7 20   55 P1_1
P15_0 21   54 P1_0
P15_1 22   53 P12_0
P15_2 23   52 P12_1
P15_3 24   51 P12_2
P15_4 25   50 P12_3
P15_5 26   49 P12_4
P0_0 27   48 P12_5
P0_1 28   47 P12_6
P0_2 29   46 P12_7
P0_3 30   45 P2_7
P0_4 31   44 P2_6
P0_5 32   43 P2_5
P0_6 33   42 P2_4
P0_7 34   41 P2_3
XRES 35   40 P2_2
GND 36   39 P2_1
Vdd 37   38 P2_0

Screw Header
J1
6x 4 Pole
1x 2 Pole

J11
PPTC061LFBN-RC
Motor2–Output_A
Motor2–Output_B

J9 (5x 4 Pole)
Screw Header

+5V

Example PDF

Sheet: /
File: Robotics Control PCB.kicad_sch
Title:
Size: A4   Date:
KiCad E.D.A. 8.0.8   Rev: Id: 1/1