A

s_5V   S_5V   mcu[1C], power[1B], power[3D]

U1

mcu[2A] RXD1
mcu[2A] DIR
mcu[2A] TXD1

1 RO   VCC 8
2 RE   D- 7
3 DE   D+ 6
4 DI   GND 5

MAX485

R1 0   R2 47   D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[1D]

C1 0.1uF

R3 0   R4 47   D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[1D]

GND

B

J2   GND

GND
1
2 V_Motor   V_Motor   dynamixel[1B], dynamixel[1C], dynamixel[1D], power[1A]
3 D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4B]
4 D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4A]

molex

J3   GND

GND
1
2 V_Motor   V_Motor   dynamixel[1B], dynamixel[1C], dynamixel[1D], power[1A]
3 D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4B]
4 D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4A]

molex

C

J4   GND

GND
1
2 V_Motor   V_Motor   dynamixel[1B], dynamixel[1C], dynamixel[1D], power[1A]
3 D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4B]
4 D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4A]

molex

J5   GND

GND
1
2 V_Motor   V_Motor   dynamixel[1B], dynamixel[1C], dynamixel[1D], power[1A]
3 D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4B]
4 D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[1D], dynamixel[4A]

molex

D

J6   GND

GND
1
2 V_Motor   V_Motor   dynamixel[1B], dynamixel[1C], power[1A]
3 D+   D+   dynamixel[1B], dynamixel[1C], dynamixel[4B]
4 D-   D-   dynamixel[1B], dynamixel[1C], dynamixel[4A]

molex

Title		
Size A4	Number	Revision
Date:	8-20-2024	Sheet of
File:	C:\Users\..\dynamixel.SchDoc	Drawn By:

Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	Resistor	SMD type resistor	[NoValue], R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R13, R14, R15, R16, R17		Unknown server		17							
	non-polar_Capacitor	SMD type ceramic capacitor	C1, C2		Unknown server		2							
	Polar_Capacitors	Electrolytic Capacitor	C3, C4		Unknown server		2							
	SM340A	Schottky Barrier Diode	D1		Unknown server		1							
	LED	Light Emitting Diode	D2, D3		Unknown server		2							
	FUSE	fuse	F1		Unknown server		1							
	molex	Molex 4Pin Connector	J2, J3, J4, J5, J6, J7, J8, J9		Unknown server		8							
	molex	Molex 2Pin Connector	J10, J13, J14, J15, J17		Unknown server		5							
	XT_60M	XT_60 Connector MALE	J11		Unknown server		1							
	XT_60F	XT_60 Connector FEMAIL	J12		Unknown server		1							
	Inductor_Power	SMD type Inductor	L1		Unknown server		1							
	UART	Connector, uart232	M1		Unknown server		1							
	switch_slide	slide switch	S1, S2		Unknown server		2							
	MAX485	convertor 232to485	U1		Unknown server		1							
	STM32_MODULE	processor	U2		Unknown server		1							
	LM2596	5V Transformer	U3		Unknown server		1							