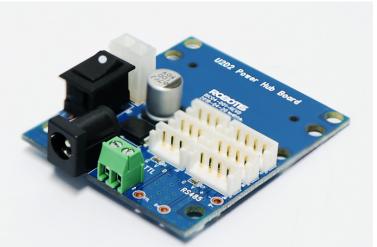


6. Connector Information

DYNAMIXEL DYNAMIXEL EDUCATIONAL SOFTWARE PARTS FAQ

C Edit on GitHub

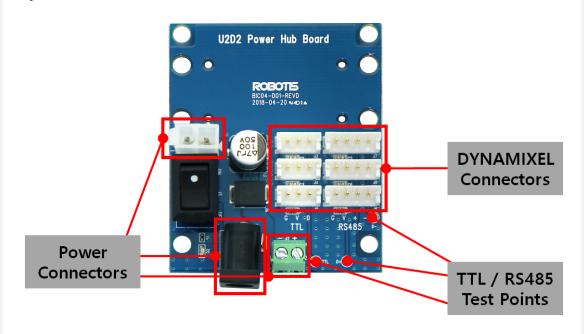
Combined with U2D2, it can supply various kinds of external power supply to supply stable power to DYNAMIXEL.



# 2. Specifications

Item	Details
Operaing Voltage	3.5V ~ 24.0V
Maximum Current	10.0A

# 3. Layout



### 3. 1. Description

- 1. DYNAMIXEL Connectors: 3 and 4-pins JST connectors are installed for communication. See Connector Information for more details.
- 2. TTL/RS485 Test Points: TTL data line, RS485 D +, D-line signals can be easily identified via the test points
- 3. Power Connectors: U2D2 PHB provides three different types of power connectors to supply a diverse voltage and current to DYNAMIXEL.
  - SMPS DC Connector (2.5mm ID / 5.5mm OD, Center Positive)
  - $\circ \ \ \mathsf{MOLEX} \ \mathsf{Power} \ \mathsf{connector} \ \mathsf{(See} \ \mathsf{Connector} \ \mathsf{Information} \ \mathsf{for} \ \mathsf{more} \ \mathsf{details)$
  - o PCB Screw Terminal Block Connector
    - Left: -
    - Right: +

CAUTION:



**▲** TOP

- Be sure to check the polarity of the terminal block connector when using an external power supply, to enhance the user safety.
- Some pins stick out on the bottom of the board, which are prone to touch the floor. To prevent from touching a floor, assemble the board with the supplied supporters following How to Assemble instruction.

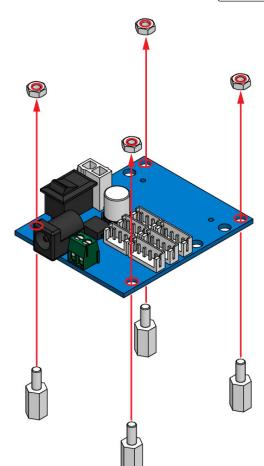
# 4. How to Assemble

**U2D2 Power Hub** 

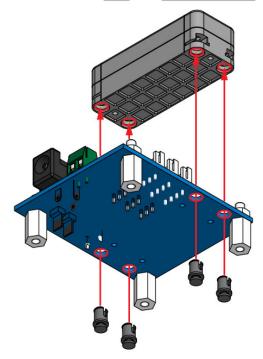
5. How to Assemble6. Connector Information

Introduction
 Specifications
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1. Assemble four(4) plastic supporters at each corner of the [U2D2 Power Hub Board] as shown below.



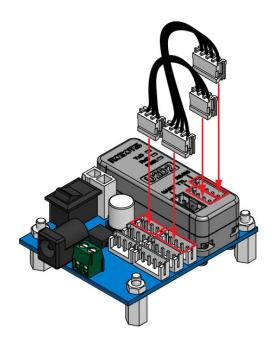
2. Use plastic rivets to mount T2D2 on the T2D2 Power Hub Board.



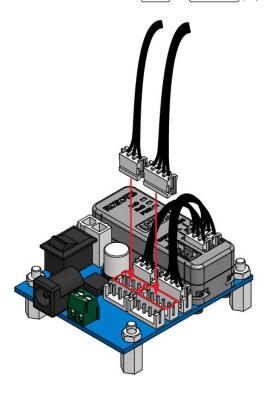
3. Connect UZD2 and UZD2 Power Hub Board with 3P or 4P cables (Both 3P and 4P cables can be connected at the same time).

# U2D2 Power Hub 1. Introduction 2. Specifications 3. Layout 4. Cautions 5. How to Assemble

6. Connector Information



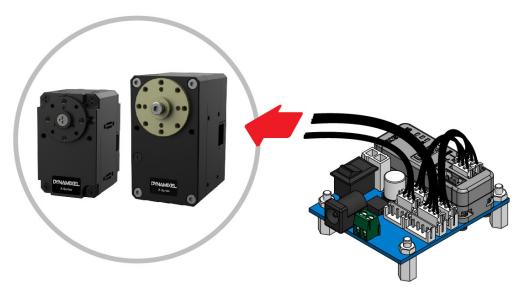
4. Connect additional cables that will connect (U2D2) and (DYNAMIXEL) (Depending on DYNAMIXEL model, converting cables may be required).



5. Connect the other side of the cable to DYNAMIXEL (Depending on DYNAMIXEL model, converting cables may be required).

# **U2D2** Power Hub

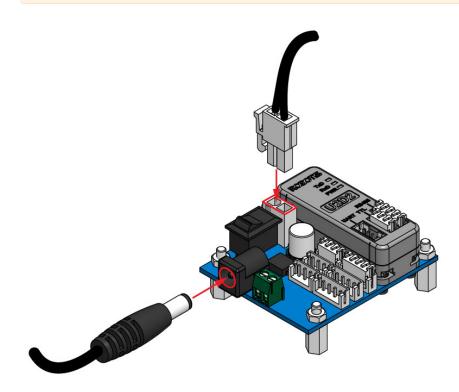
- 1. Introduction
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6. Connect power to U2D2 Power Hub Board ).

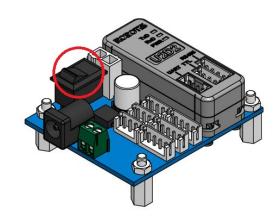
**DANGER**: Do NOT use multiple power inputs at the same time. Select ONLY one of the power source to connect.

**WARNING**: Check the Recommended Voltage for DYNAMIXEL before supplying the power.



7. Turn the power switch on  $\fbox{\sc U2D2\ \sc Power\ Hub\ \sc Board\ \sc}$  to supply power to DYNAMIXEL

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# 5. Connector Information



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