

Compatibility Check

Thursday, 25 August 2022 11:28 am

Item	CM_530
Weight	54g
CPU	STM32F103RE
Voltage Supply	Range : 6V ~ 15V Recommended : 11.1V (3S1P Li-Po)
Current Consumption	Standby : 50mA External I/O Max Current : 300mA Total Max Current : 10A(Fuse)
Internal IO Device	Button x 5(Reset 1, Port 5) MIC for sound detection x 1 Voltage Sensor x 1
External IO Device	ROBOTIS 5-Pin Port x 6 AX/MX Series DYNAMIXEL Connector x 5

- **Connection to servos** for the CM-530 is done in a DAISY CHAIN METHOD be it the AX/MX Series
- **Area of Concern** It is used to set or test the operations of CM-530 and AX-12A using [RoboPlus Manager](#).

Are we planning to use or using the RoboPlus Manager to test AX-12A for our project?

From <<https://emanual.robotis.com/docs/en/parts/controller/cm-530/>>

Similarities of AX & MX series;

- Both run on the same communication protocol
- Both use 3pin Molex Connector

Conclusion:

- Both the motors are compatible with the CM_530 controller.
- Need to actually test out if they are able to run together in the Project at the same time

Harness compatibility guide: https://emanual.robotis.com/docs/en/popup/cable_compatibility/

DYNAMIXEL product compatibility guide:
https://emanual.robotis.com/docs/en/faq/faq_dynamixel/

DYNAMIXEL robotis Products Compatibility Table:
https://emanual.robotis.com/docs/en/popup/faq_protocol_compatibility_table/