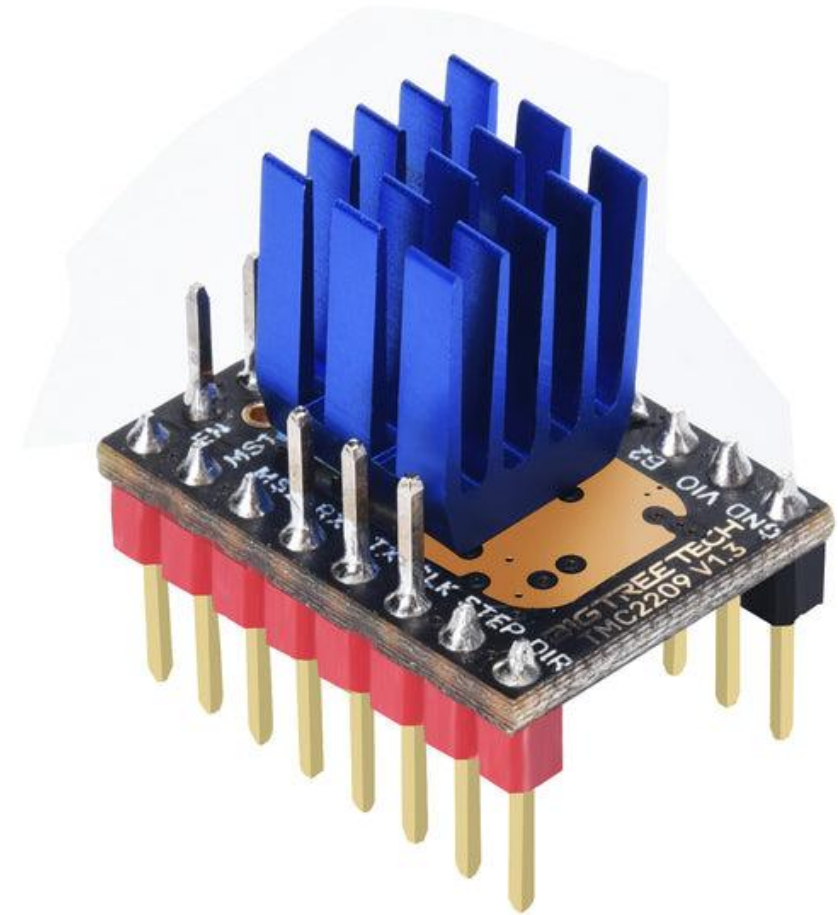# Motor

- NEMA 17 Stepper motors
    - 1.8deg.
    - Bipolar.
    - 5x 42*42*36mm.
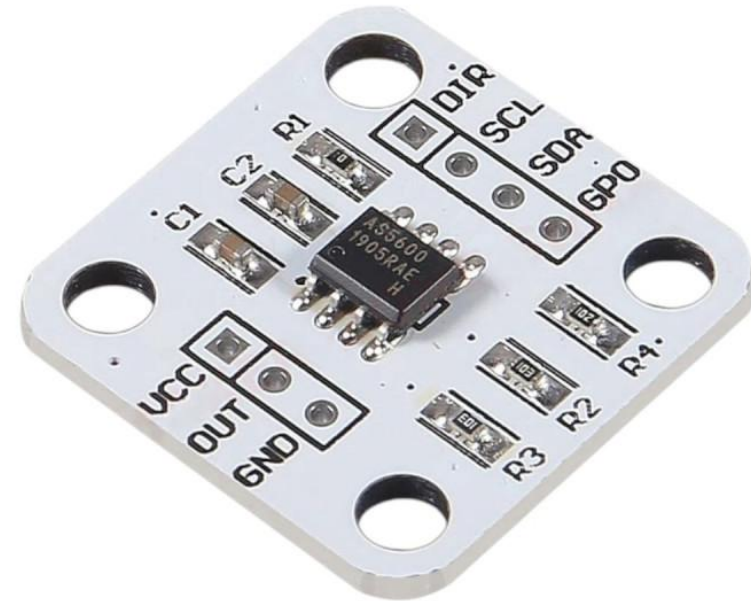   - 1x 42*42*48mm.

Motor Drivers

- TMC2209
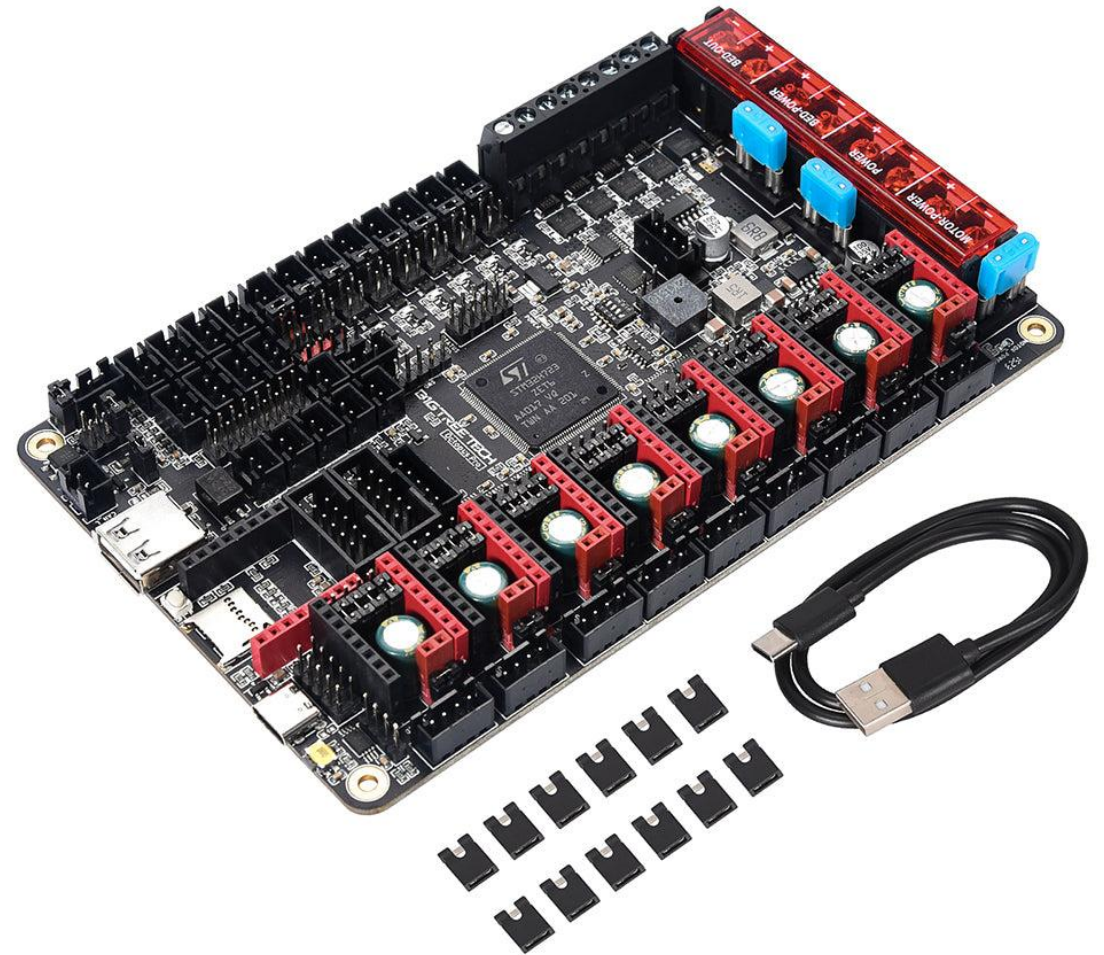 - Up to 256 micro steps
  - 2A RMS

Encoder

- 12-bit magnetic encoder.
- Used for homing and position tracking.

Main Board

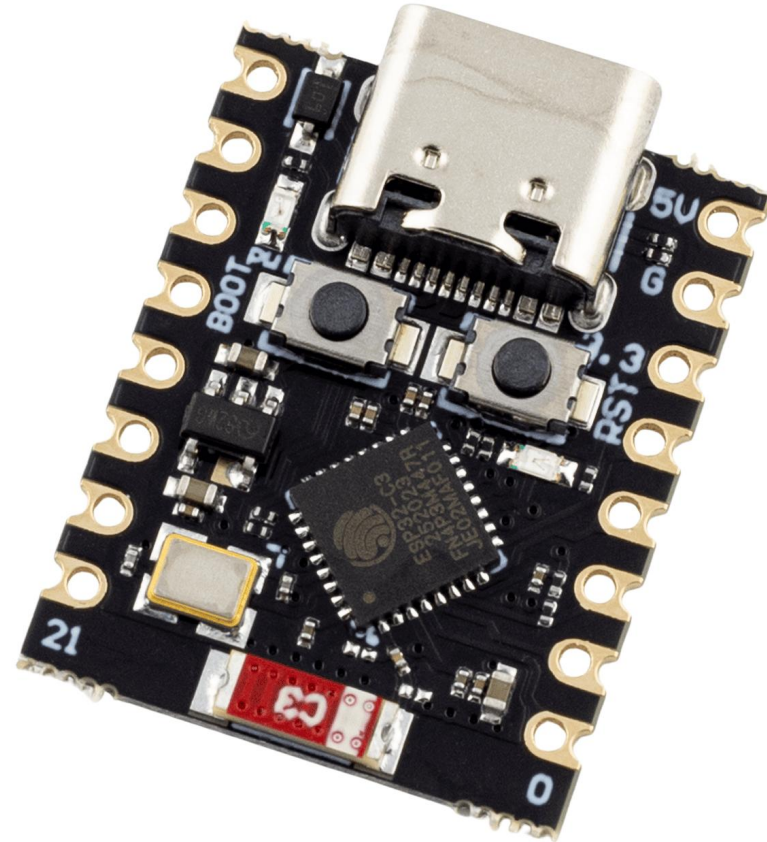- BTT Octopus pro v1.1
  - STM32H723

Screen

- 2.8 inch tft sceen.
- 320*240 pixels.
- FT6336G touch IC.

ESP32

- ESP32 C3-mini.
- Used for running the GUI and wireless communication.

Power Supply

- 24v 10A power supply

Hardware

- Screws.
- Ball Bearings.
- Thread inserts.
- Betls.