

ESC 4in1 80A AM32 8S

User manual



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## Content

1. Product overview.....	3
2. Wiring guide .....	3
2.1. Power Input (Battery Connection) .....	3
2.2. Motor Connections .....	4
2.3. Control Connector (8-Pin JST-SH) .....	4
3. Safety warnings.....	5
Contacts: .....	5

## 1. Product overview



Fig.1. ESC 4in1 80A AM32 8S

The ESC 4in1 80A AM32 8S is a four-in-one electronic speed controller designed for FPV applications. Featuring a continuous current rating of 80A and a peak current capacity of 100A, it supports input voltages from 3 to 8S. The device is equipped with an AT32F421K8U7 microcontroller and utilizes the AM32 firmware, allowing for multiple protocols including DShot150, DShot300, DShot600, Multishot, OneShot, ProShot, and PWM.

## 2. Wiring guide

According to the diagram, please follow these steps for a safe and reliable installation:

### 2.1. Power Input (Battery Connection)

- Positive (+): Solder the Red wire from your battery lead (XT60/XT90) to the large pad marked with a (+) sign at the bottom.
- Negative (-): Solder the Black wire from your battery lead to the large pad marked with a (-) sign at the bottom.
- Capacitor: You **MUST** solder a Low ESR capacitor to these same pads. Keep the legs of the capacitor as short as possible to minimize electrical noise.

## 2.2. Motor Connections

The ESC has 12 side pads grouped for 4 motors.

- Motor 1 (Bottom right): Connect the three wires from your motor to the pads marked 1.
- Motor 2 (Top right): Connect to pads marked 2.
- Motor 3 (Bottom left): Connect to pads marked 3.
- Motor 4 (Top left): Connect to pads marked 4.

Note: If a motor spins in the wrong direction, you can swap any two wires or change the direction in the AM32 Configurator.

## 2.3. Control Connector (8-Pin JST-SH)

The top connector links the ESC to your Flight Controller (FC).

- VCC: Battery voltage output to FC (for voltage monitoring).
- GND: Common ground.
- CUR: Current sensor output.
- S1 - S4: Motor signals 1 through 4.

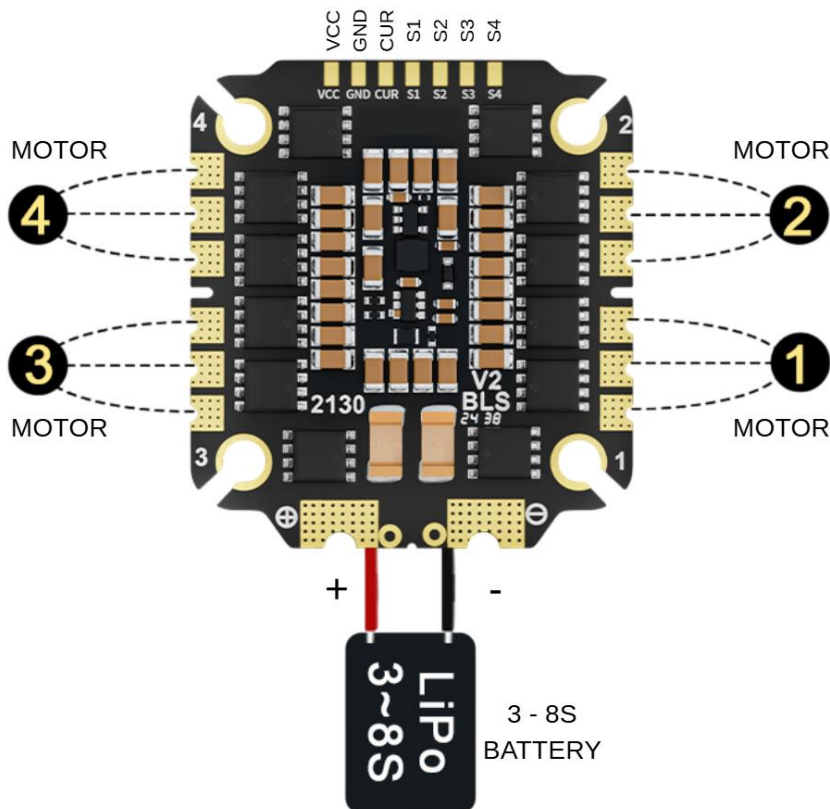


Fig.2. Wiring diagram

### 3. Safety warnings

- Smoke stopper: Always use a smoke stopper for the first power-on.
- Polarity: Double-check (+) and (-) before connecting the battery. Reversed polarity will destroy the ESC instantly.
- Condensation: If bringing the drone from a cold environment to a warm room, wait 30-60 minutes for moisture to evaporate before powering on.

### Contacts:

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