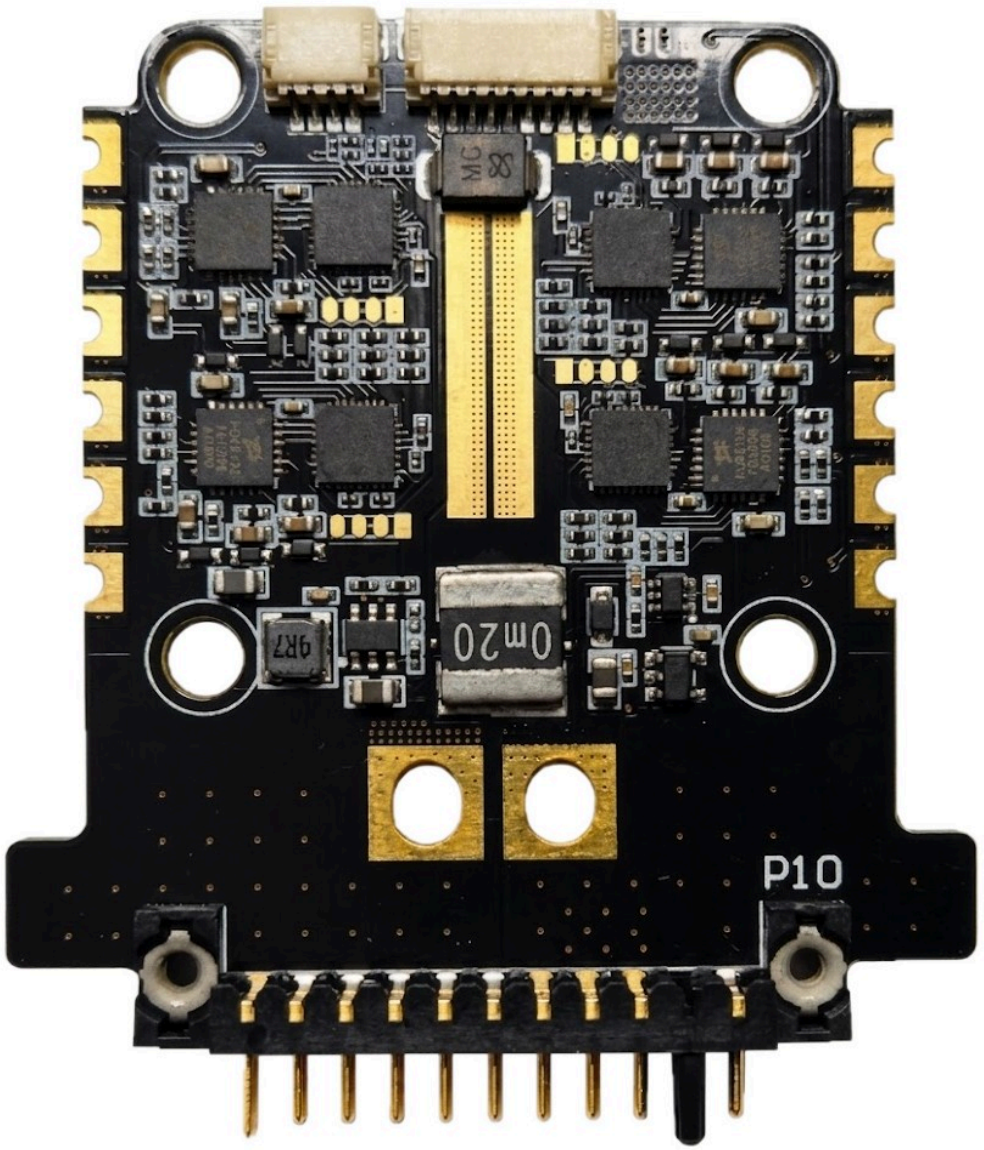
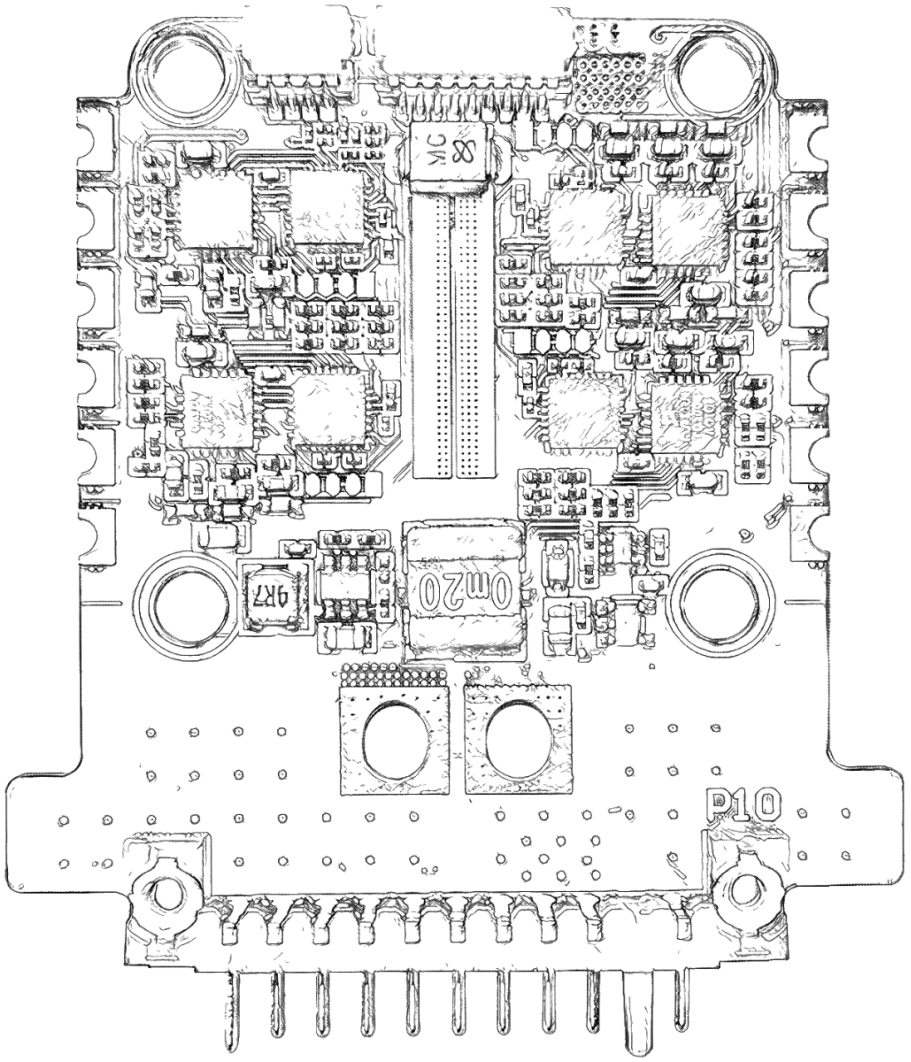
AE-6S 60A BC

User Guide



AE-6S 60A BC Overview



32-bit ESC rated for 6S LiPo and 60 A continuous. The BC (Battery Connector) variant ships with a battery connector for solderless hookup. Supports BDShot telemetry and AM32 / novaX ef 1.0 firmware.

AE-6S 60A BC Specifications

· Basic Specifications

MCU	AT32F415KBU7 (128 KB Flash)
Mounting Hole	45 × 52 mm / Φ 4 mm
Weight	18.5 g
Voltage Range	4 – 6S LiPo (16.8 – 25.2 V)
Constant Current	60 A
Burst Current	75 A
BDShot	Supported
Current Sensor	Supported
BEC Output	None
Capacitor	1000 µF / 63 V
PWM Frequency	24 / 48 / 96 kHz
Supported Protocols	DShot150 / 300 / 600, MultiShot, OneShot

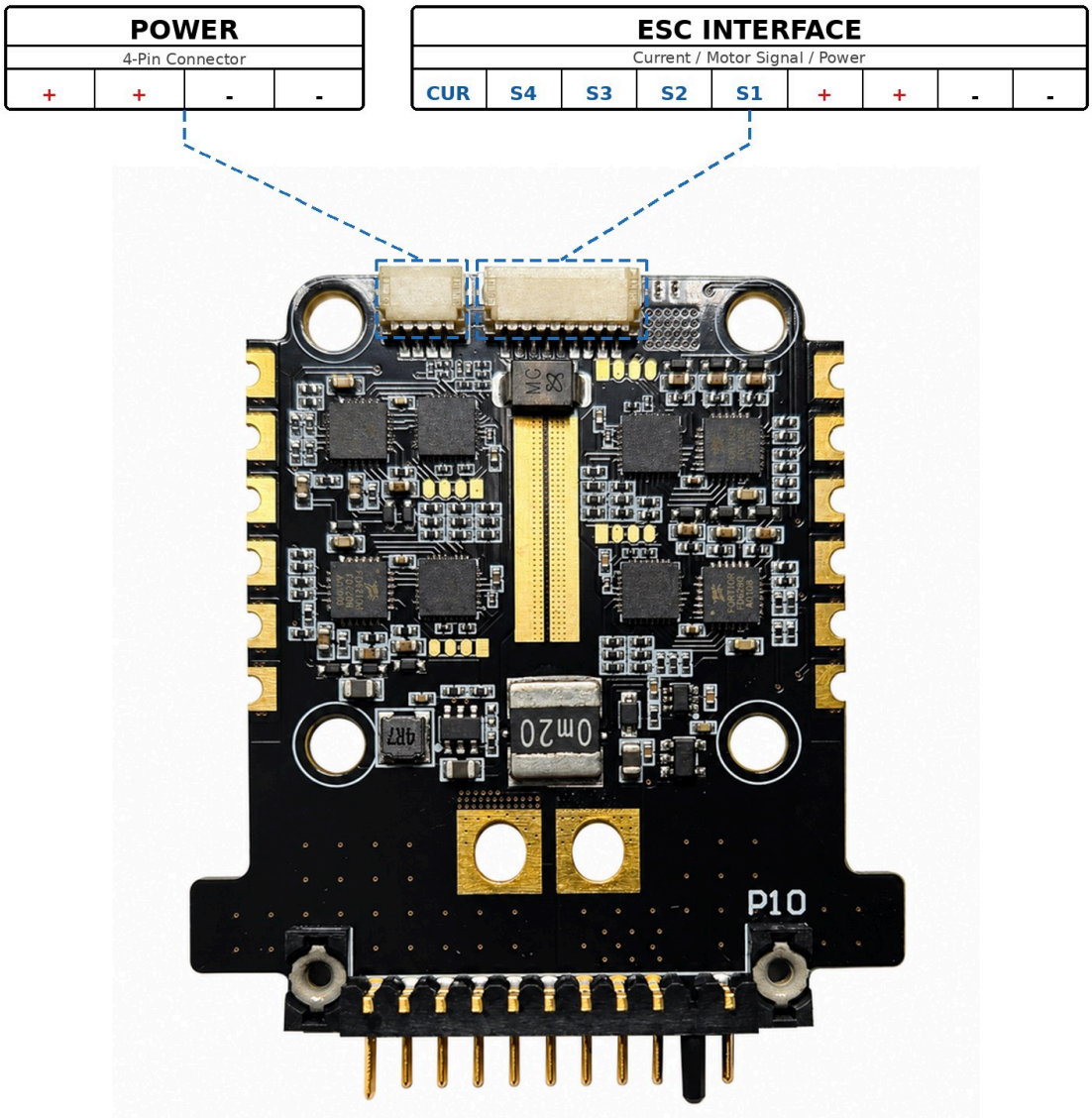
AE-6S 60A BC Specifications

· Basic Specifications

Firmware	AM32, novaX ef 1.0

AE-6S 60A BC Pinout

· Pinout



AE-6S 60A BC Setup

1. Mounting — Mount with anti-vibration grommets and insulate the component side from carbon frames. Mounting: 45 × 52 mm / Φ 4 mm.
2. Wiring — Connect the battery +/– observing polarity, the motor wires to each output and the signal connector to the flight controller ESC port, following the pinout and board markings. Input: 4 – 6S LiPo (16.8 – 25.2 V).
3. Protocol — Select a supported protocol (DShot150/300/600, MultiShot, OneShot) on the flight controller.
4. Spin check — Without propellers, check motor order and direction; swap two motor wires or reverse it in the settings if needed.
5. Firmware — Update the AM32 application through the AM32 configurator's 4-way passthrough; flash the BootApp image over SWD on a blank board.

AE-6S 60A BC Firmware

· Available Firmware

Type	Version	Date
Bootloader (AT32F415 · SWD)	V16	2026-07-30
Application (AM32 · 4-way passthrough)	2.29	2026-07-30
Bootloader + App (merged HEX · SWD)	2.29 / V16	2026-07-30
Bootloader + App + T10 settings (merged HEX · SWD)	2.29 / V16 · T10 preset	2026-09-10

Download files from the product page (QR).

AE-6S 60A BC Safety Notes

- Do not exceed the input voltage range — 4 – 6S LiPo (16.8 – 25.2 V).
- Do not exceed 60 A continuous / 75 A burst; provide cooling.
- Reverse battery polarity destroys the ESC instantly — check before connecting.
- Long battery leads raise voltage spikes; keep them short.
- Always remove propellers while wiring, configuring or updating firmware.
- The T10 preset image sets every ESC to normal rotation; reverse the motors that need it with the flight controller's SERVO_BLH_RVMASK.

<Detailed Manual>


novaX