



Q-SBEC Series -32 ESC User Manual

Thank you for purchasing Q-SBEC Series-32 Brushless Electronic Speed Controller(ESC). Please read and pay carefully attention to the following instructions before you start to work with all the related power devices and this controller. Ensure the power configuration is rational before using this unit. Incorrect configuration may cause the ESC to overload and be damaged. Any improper use may cause personal injury and damage to the product and related devices. We QUANUM do not assume responsibility for any loss caused by unauthorized modifications to our product. We are only responsible for our QUANUM product cost and nothing else as result of using our product.

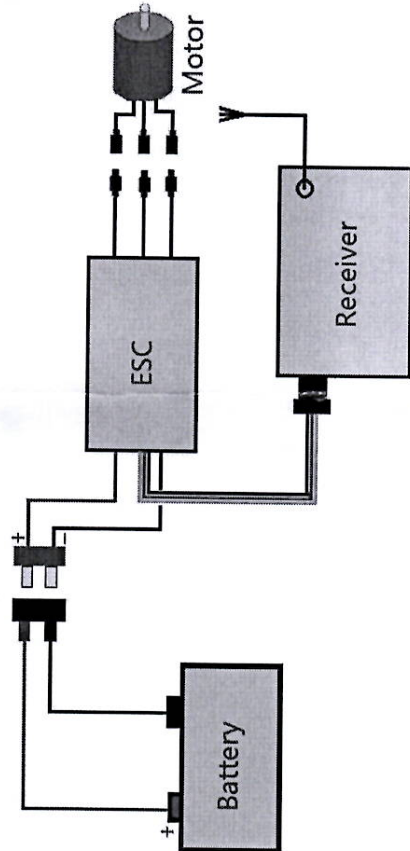
Features

- ARM 32 MCU for great powerful performance, 48MHz.
- Support PWM throttle, DShot150/300/600/1200, OneShot125, OneShot42, MultiShot modes.
- Ultra-low internal resistance MOS for less heat and super high stability.
- Easy to install with super small size and light weight.
- FIXED WING Series-32 ESC designed for F3P Airplane.
- With the function of navigation prompt, if the zero throttle signal for a long time, the electronic adjustment will immediately issue the navigation prompt sound, which can effectively help find the missing aircraft.

Specifications

Model	Product No.	Continuous/Burst		Battery Cell	BEC	BEC Output	Size(mm)		Weight
		Current					L*W*H		
32bit-20A	Q-SBEC20A	20A/30A		2-3LiPo	SBEC	5V/3A	27*13.5*5.5		8g
32bit-30A	Q-SBEC30A	30A/40A		2-3LiPo	SBEC	5V/3A	27*13.5*5.5		9g

Wires Connection



Throttle Range Calibration

Switch on the transmitter, push throttle stick upward to the top position, and then connect the ESC to the battery.

When music stopping, max throttle confirmed.

Push throttle stick to zero position.

When you hear "Beep---Beep" minimum throttle confirmed.

Throttle calibration finished, ESC ready to go.

This is an extremely powerful brushless motor system. We strongly recommend you remove propellers for your own safety and the safety of those around you before performing calibration and programming functions with this system!

ESC Programming

The screenshot shows the BLHeliSuite software interface for programming the ESC. The main window displays various settings for the ESC, including:

- ESC setup:** ESC# 1 - Name: EMPTY
- Motor Control:** Motor Direction: Normal, Motor Timing: 16 deg, Maximum Acceleration: Maximum, Current Sense Calibration: +/- 0%
- Misc:** Minimum Throttle: 1040, Maximum Throttle: 1960, Center Throttle: 1500, Brake On Stop: Off, Non Damped Mode: On
- LED Control:** Startup Beep Volume: 40, Beacon/Signal Volume: 80, Beacon Delay: 10:00 min, PWM Frequency: 24 kHz, Music Note Config: Music Off, Music Editor
- Other settings:** Rampup Power: 150%, Temperature Protection: 140 C, Low RPM Power Protect: On, Low Voltage Protection: Off, Current Protection: Off

The interface also includes buttons for Read Setup, Write Setup, Flash BLHeli, and Disconnect, along with a Baud rate setting of 19200.