#31019
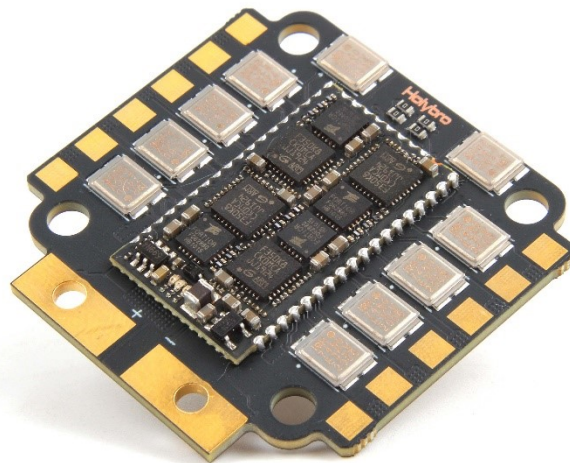# Tekko32 F3 Metal 4in1 ESC(65A)

BLHELI32 / Onboard analog current sensor / F3 MCU

The New BLHELI32 ESC adapted the F3 MCU, which will provide a smoother control and faster response speed, along with a Metal case mosfet that increases Heat dissipation.

The latest Tekko32F3 Metal 4in1 ESC has made various improvements on its performance compared to the previous version:

1) Better optimized power path, providing a more stable performance.

2) Doubled capacity of on-board capacitors, now capable of 2068uf,.

3) Amperage meter scale ratio has been adjusted to 168.

4) Added 3 fault detection indicators to indicate faults better.

5) Enhanced and more robust Lipo input pad for soldering.

6) PCB with 3oz copper design, capable of handling bigger current, and better heat dissipation capacity.

7) The PCB design uses a design in which the drive circuit and the control circuit are separated. This design broadens the overcurrent capability of the drive circuit, and at the same time reduces the electrical interference to the control circuit.

SPEC:

- F3(M4 Core) MCU, Runs BLHELI32 firmware, the MCU works at 108Mhz
- The 4in1 has onboard analog current sensor, and TLM function(then no current reading over TLM)
- Using metal case mosfet for better Heat dissipation
- Supports Lipo 4-6S
- Ext. cap needed for 6s (1000uf 35v for 6s usage.)
- Size:43 x 44mm
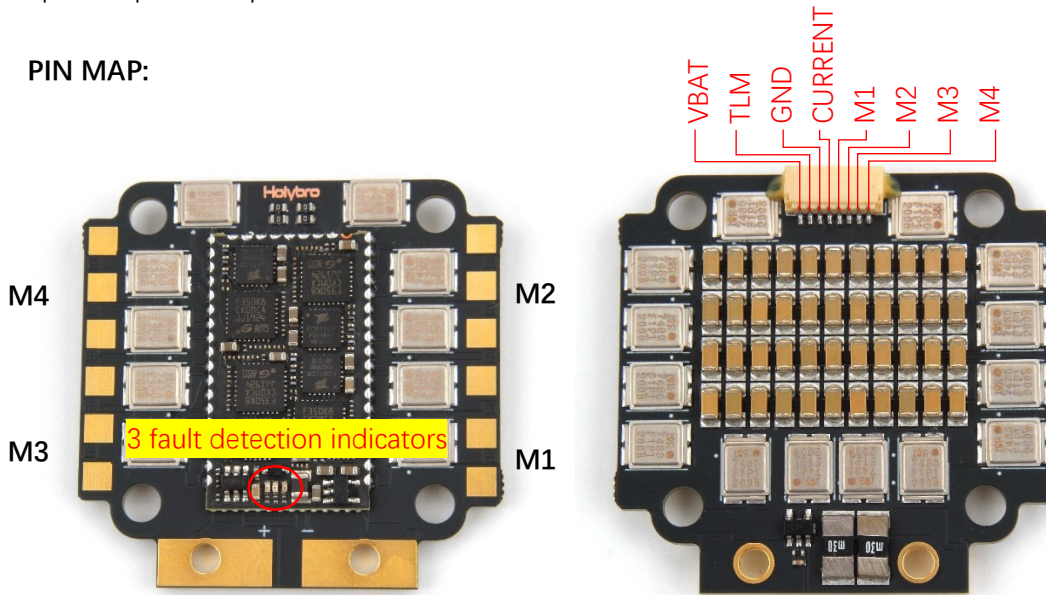- Mounting holes:30.5x30.5mm
- Weight: 15.8g

Notice:

The air flow is very import if you want to run this 4in1 in high current.

The input cable(from Lipo to 4in1), should be good soldered, and at least 12AWG

Package included:

Tekko32 F3 Metal 4in1 ESC *1

M3 Anti-Vibration Silicone Grommet Insert *4

Electrolytic capacito: 1000uF 35v *1

8pin to 8pin 1mm pitch 65mm cable *1

8pin to 8pin 1mm pitch 25mm cable *1

PIN MAP:

Fault indicators（● on, ○ out）

●●●	All good
●○○	BEC or Gate drivers broken
●●○	MCU burned out
○○○	No power

Some Tips:

- BLHeli_32 ESC Firmware Overview
- GitHub