HGLRC SPECTER 90A ESC



Using double-sided fully

Using double-sided fully wrapped CNC shell

Efficient heat dissipation even under high current load

At the same time, prevent debris from entering the ESC,

making the ESC work more stable



The ESC adopts a dual MOS parallel solution

12 high-quality MOS tubes in one channel, supporting 2-8s input

Supports continuous current of 90A and peak current of 100A



Supports blheli_32 ESC telemetry

Real-time monitoring of ESC temperature

Real-time current and motor speed and other parameters



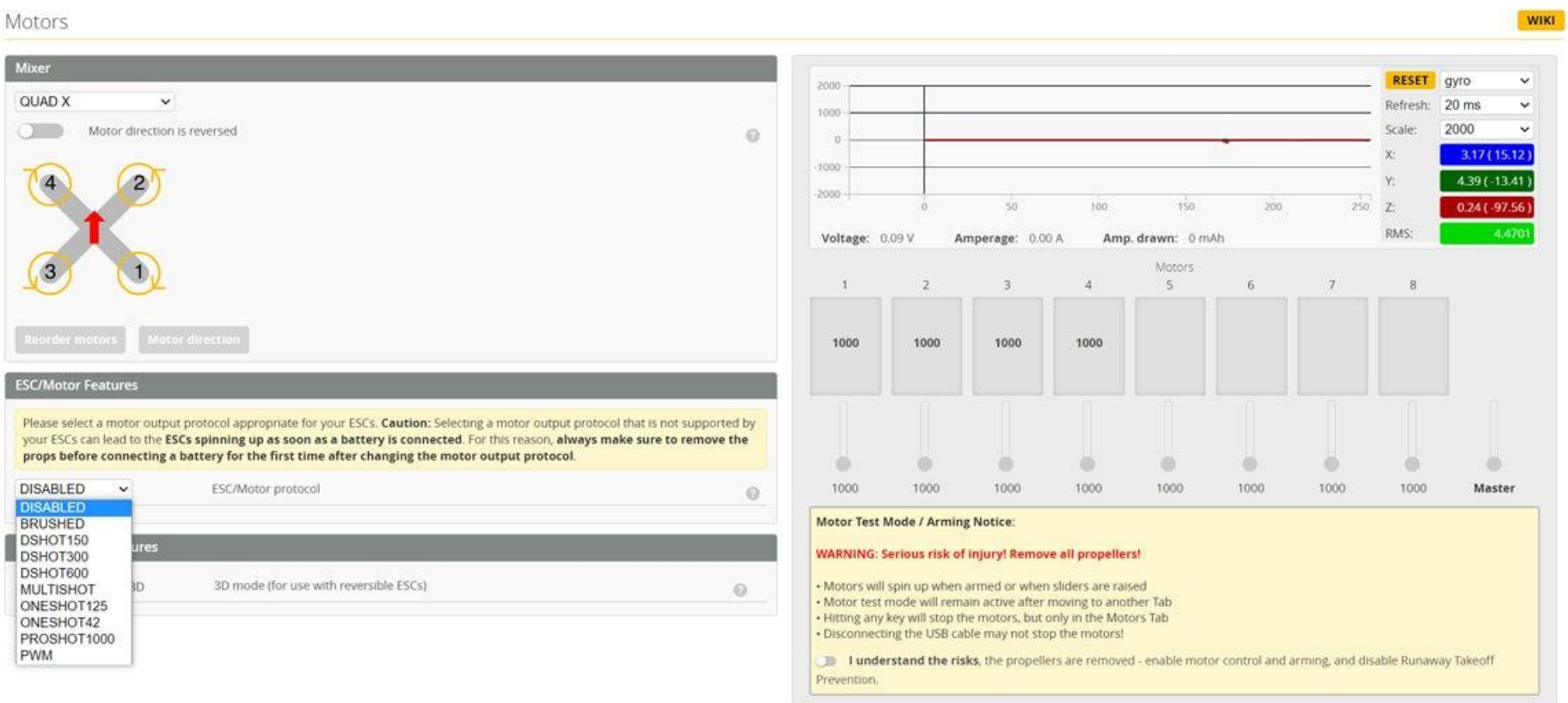
Multiple support

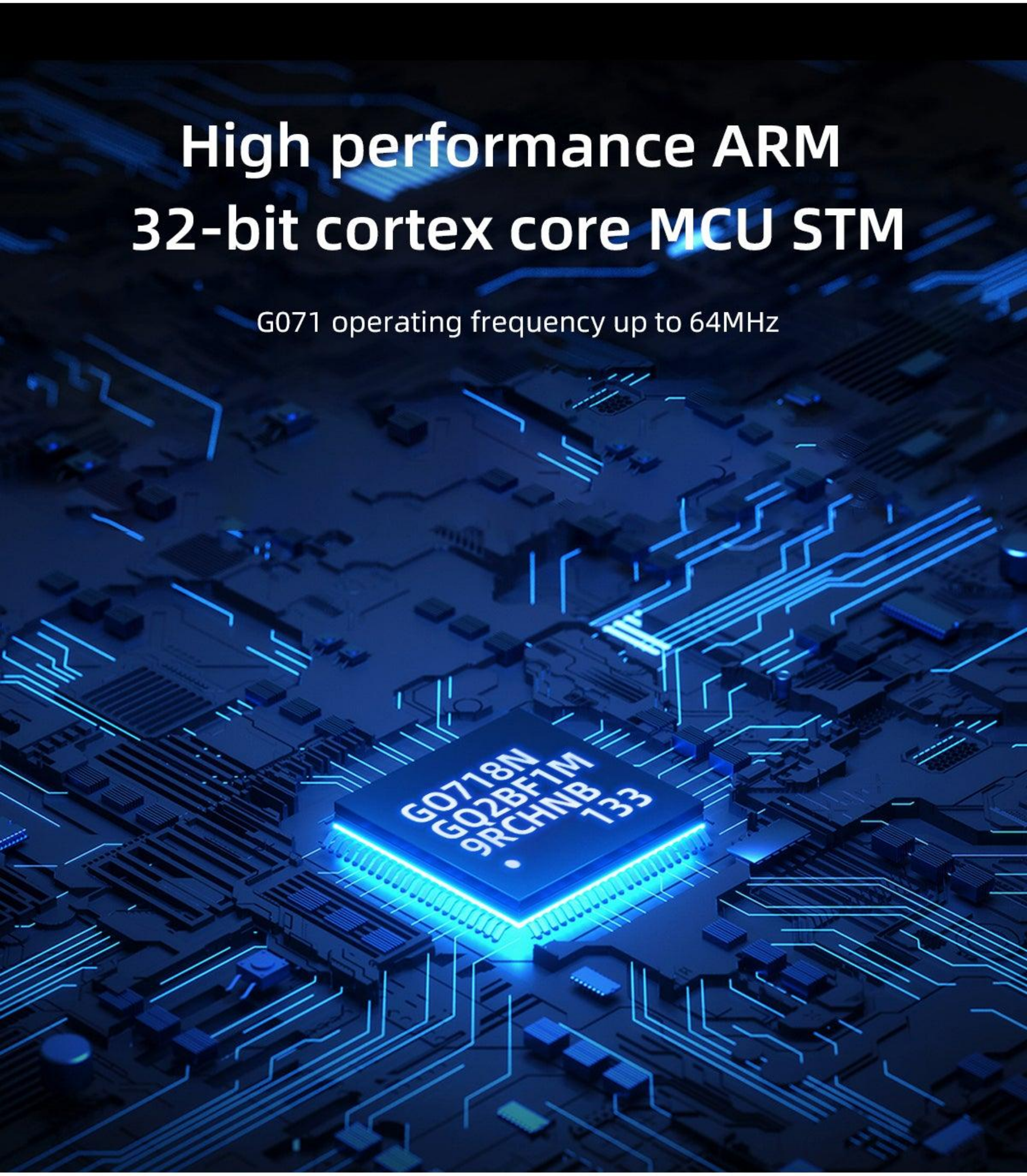
Digital signal

Dshot（Dshot150、Dshot300、Dshot600）

Throttle signal

Oneshot、Multishot、PWM





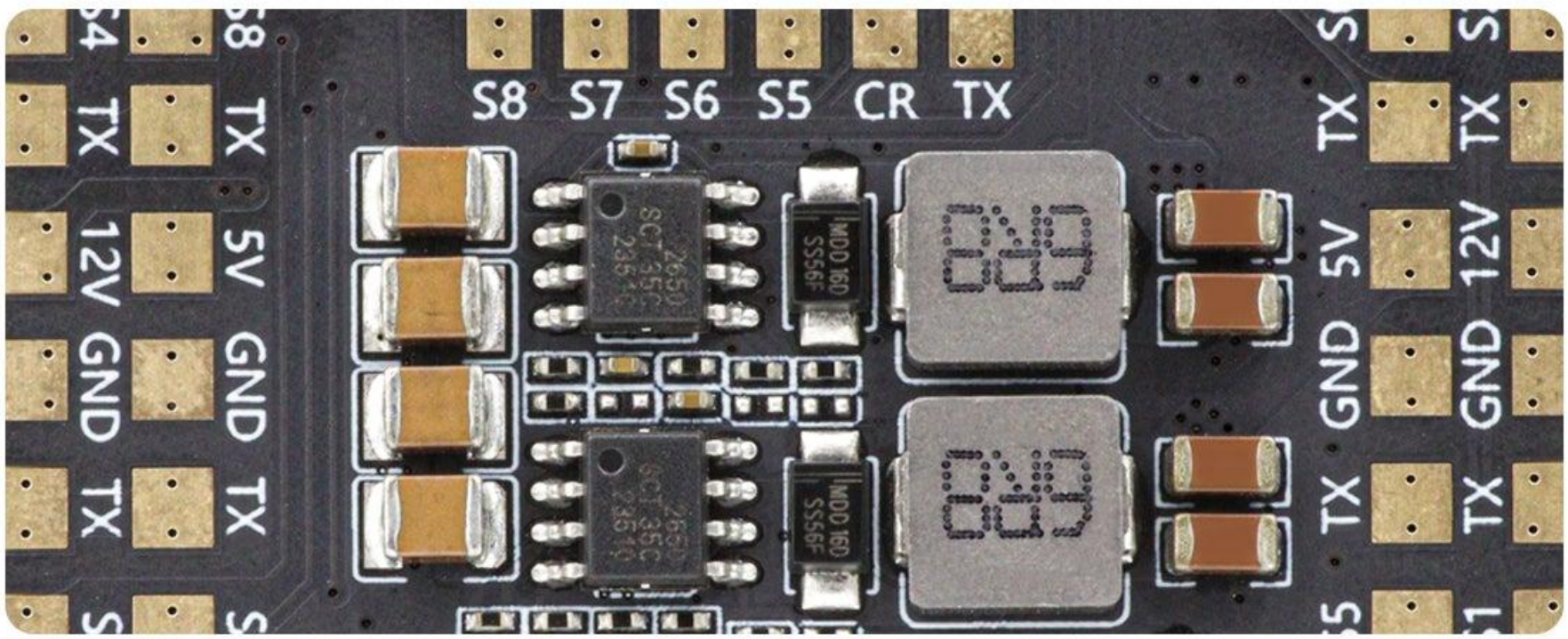
Used with HGLRC distribution board

Onboard two high-voltage DC-DC chips

Support 3S-12S (8V-60V) Lipo battery input

Dual output: 12v/4a, 5v/5a, high compatibility,

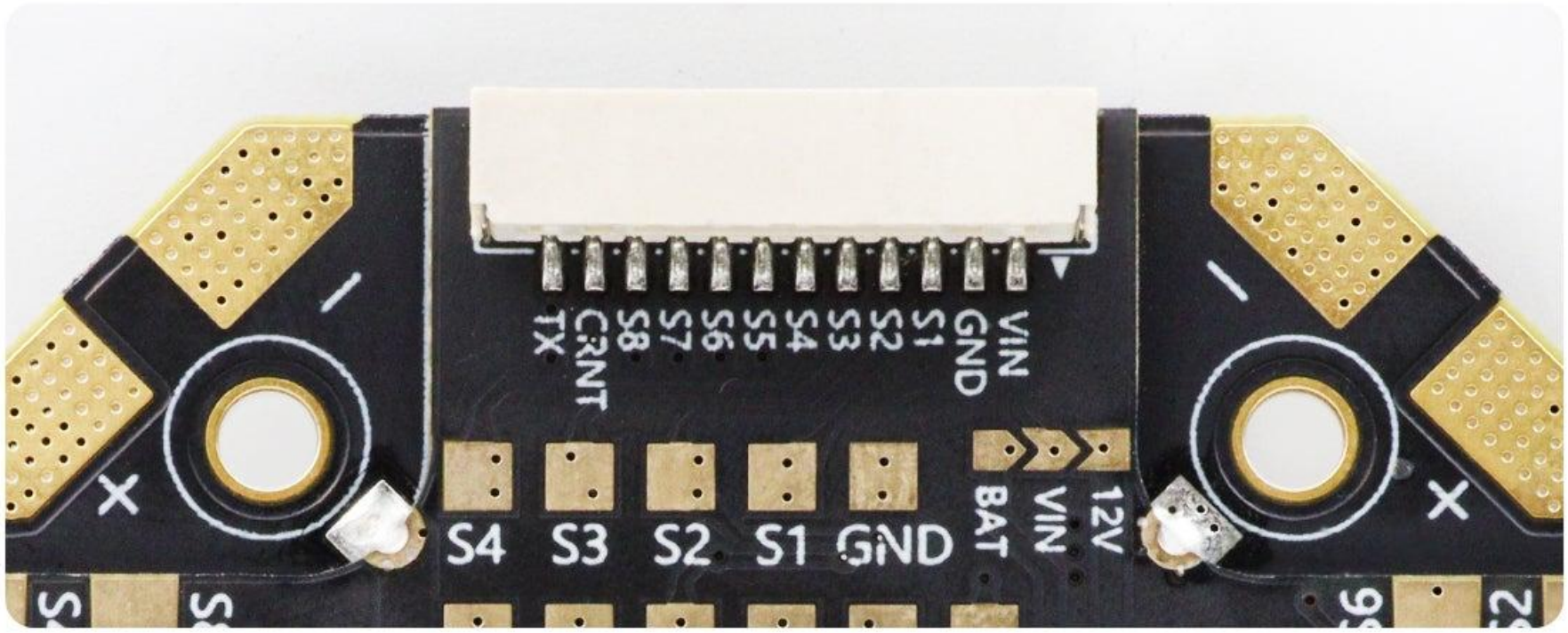
support high load, can provide stable and reliable voltage for equipment



The signals of the single ESC are uniformly collected on the GH1.25 interface

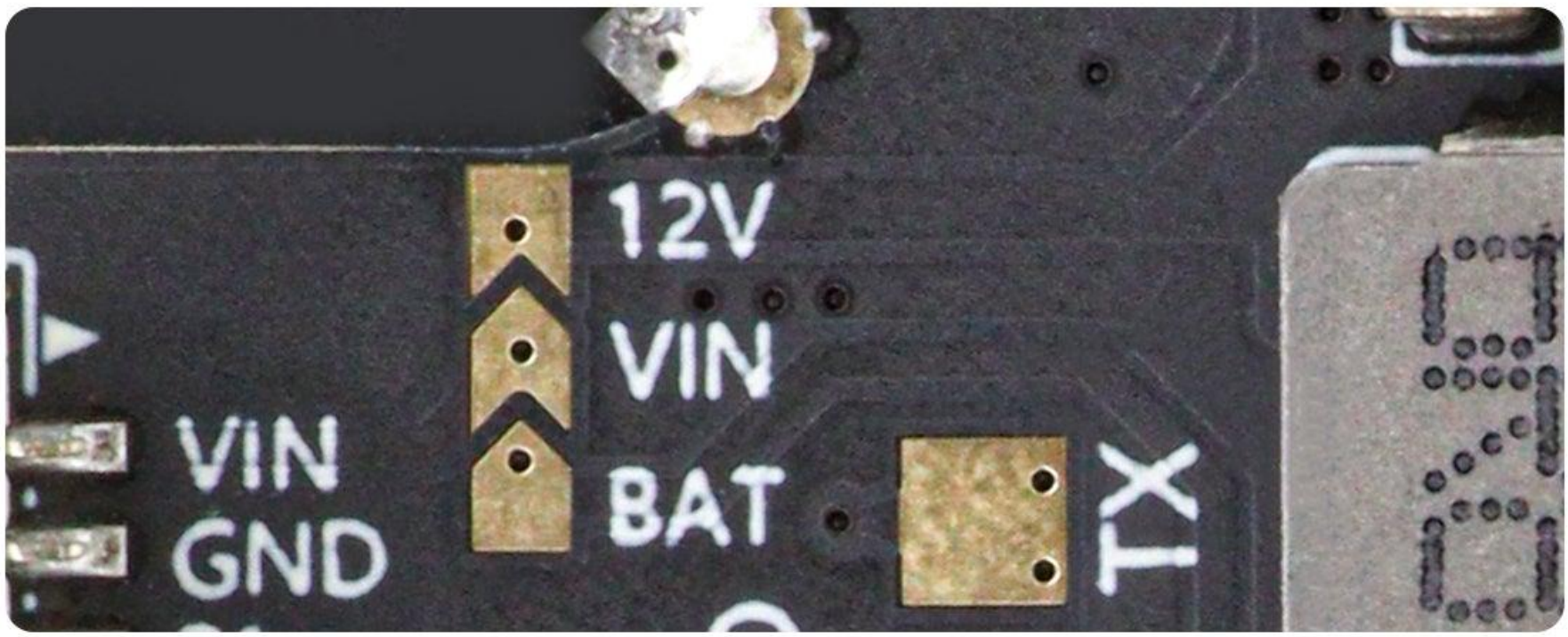
Can be directly plugged into the flight control for

more efficient and simple assembly



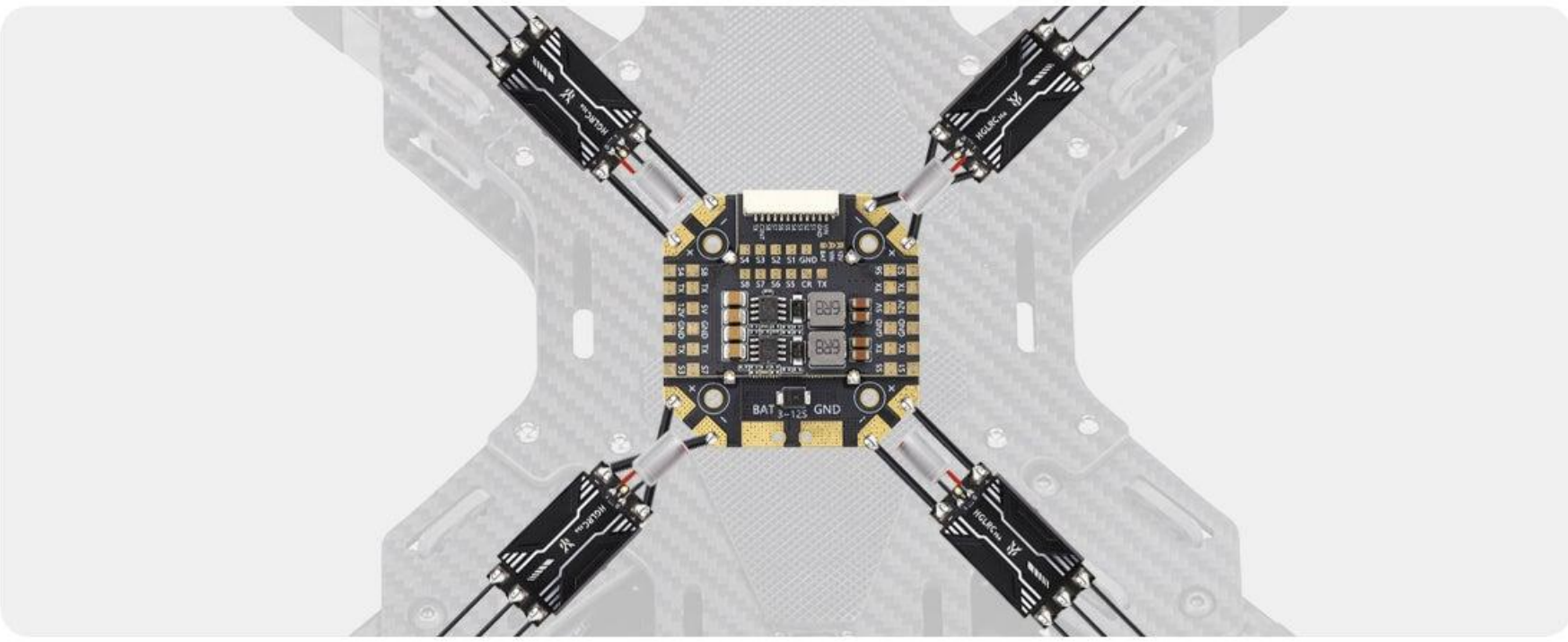
The flight control input voltage can be selected as 12V input or BAT input

Compatible with most flight control



Designed for movie-level X8, X4, and XCLASS models

High voltage and high current distribution board, using 8-layer PCB specifications



Interface definition

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① BAT: positive pole

② GND: negative pole

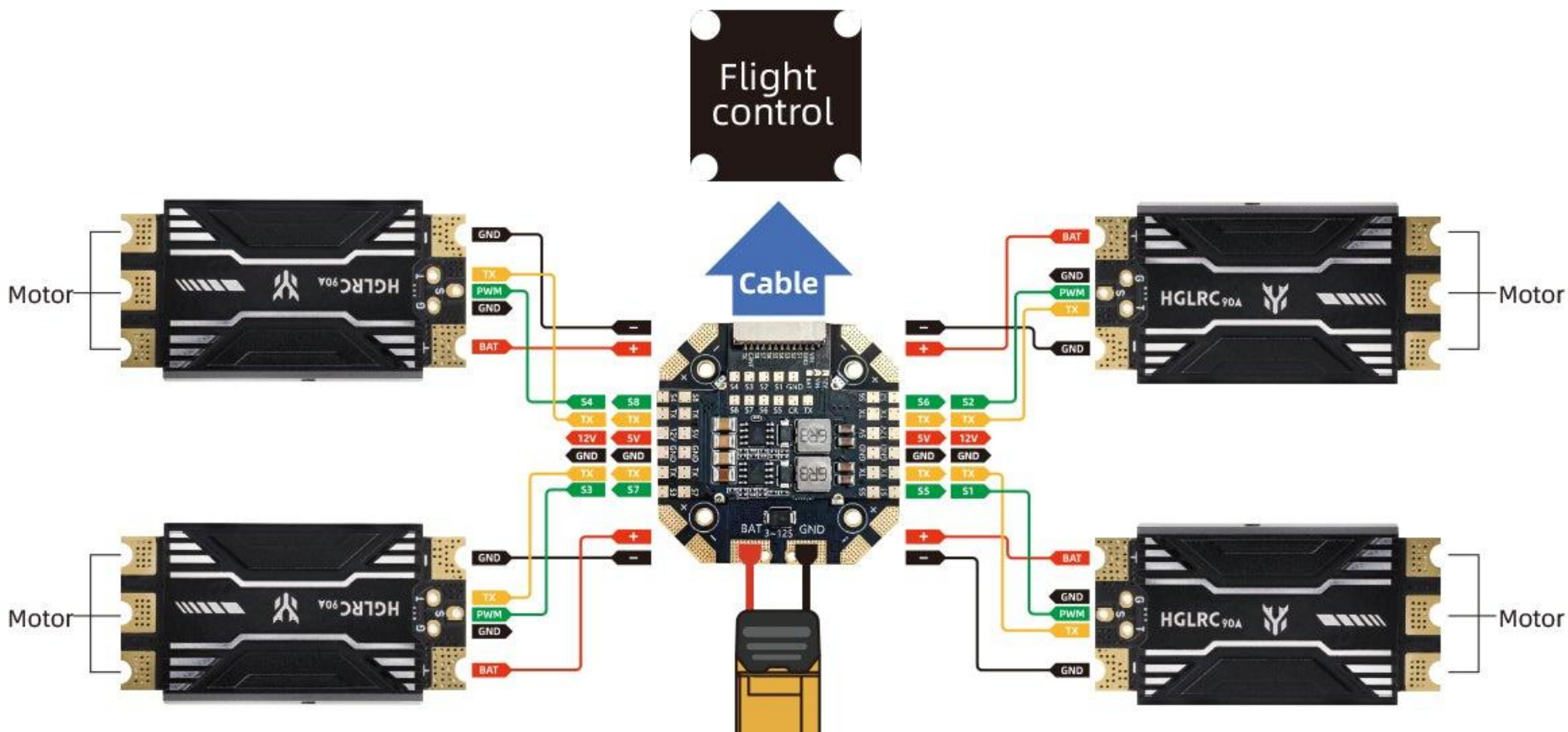
③ TX: ESC telemetry feedback - connected to flight control RX

④ PWM: connected to flight control motor output signal or PWM signal

⑤ GND: negative pole

⑥ connected to three pins of motor

Wiring diagram



+ -
Drone battery

Specification



Product name: HGLRC SPECTER 90A single ESC

Continuous current: 90A

Instantaneous current: 100A

MCU: STM32G071

Input voltage: 2-8S

BEC: None

Temperature protection: Supported

ESC telemetry: Supported

Drive signal support: Dshot150, Dshot300, Dshot600, Oneshot, Multishot

Firmware version: 32.9 BLheli_32

Frame size: 39mm*19.6mm*8.34mm

Weight: 13.9g

Distribution board parameters



Product name: distribution board

Number of ESCs supported: 8

Telemetry feedback: supported

(ESCs need to support telemetry feedback)



5V BEC: 5A

12V BEC: 4A

Amperemeter: supported

PCB current: continuous 4*100A (instantaneous 120A)

Frame size: 50mm*50mm*9.8mm

Hole size: 30.5mm*30.5mm/m3

Weight: 24g (±2g)

ESC Size

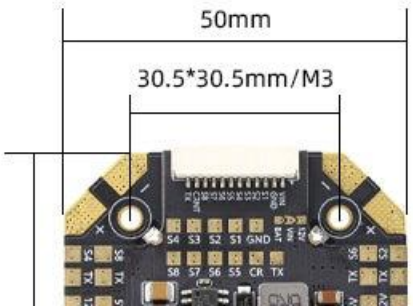




Total weight: 71.8g **Single ESC weight: 13.9g**

Distribution board Size









Total weight：34.2±2g

Distribution board
Weight：24±2g

ESC Product List











Distribution board Product List

