

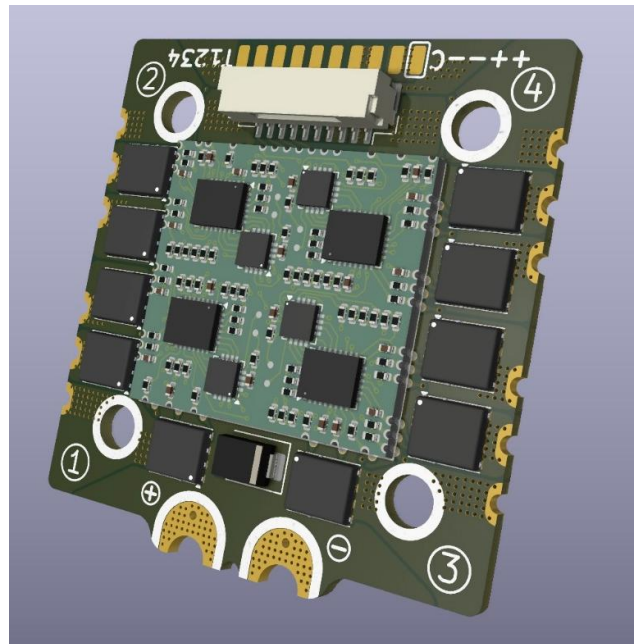
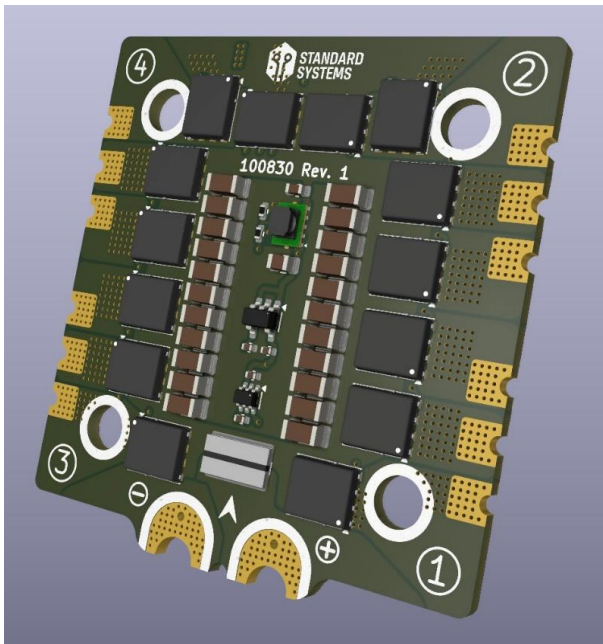


STANDARD SYSTEMS

Info Sheet

Resolute 80 Amp 4 in 1 ESC

High-reliability 4-in-1 multicopter ESC designed for sustained high-current operations in defense applications.



SYSTEM DESIGN INTENT

- Designed for sustained high-current operation, not burst-only ratings
- Power architecture optimized for clean FC supply under aggressive throttle changes
- Designed for reliable, high performance attritable drone systems

FIRMWARE

- Bluejay firmware (v0.21) for open, actively maintained ESC control and telemetry
- MCU: EFM8BB21

POWER

- 80A continuous per channel, designed for sustained thermal operation rather than burst-only ratings
- Dual power and ground paths ensure stable voltage delivery to the flight controller under transient load
- Supports low ESR capacitors mounted externally
- TVS diode protects against harmful voltage spikes
- Onboard ceramic capacitor bank ensures consistent clean power throughout your system

INPUT / OUTPUT

- 10 pin JST GH connector for flight controller interface
- 2 x VBAT power and ground to flight controller
- Current monitor signal
- 4 motor signal wires supporting bidirectional DSHOT for telemetry and features

SUPPORTED FEATURES

- Bi-directional DSHOT
- RPM Filtering
- Dynamic Idle
- Dynamic notch filters
- DSHOT 600/300
- Firmware adjustable motor order and direction

PHYSICAL

- 8 layer main PCB supports aggressive heat dissipation for sustained loads
- Weight: 18.34 g
- Size: 52mm x 45mm
- 30.5mm x 30.5mm, M3 mounting with silicon grommets