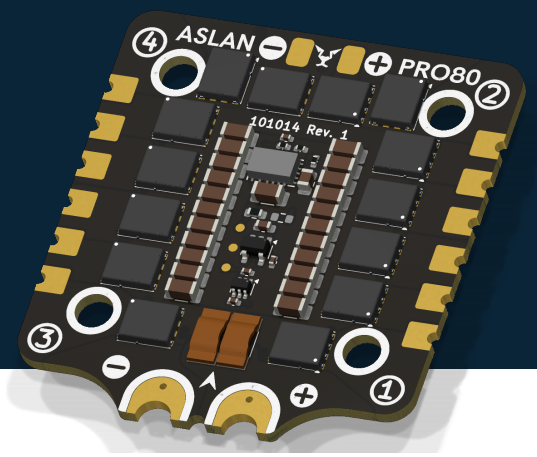
PROPULSION ELECTRONICS · 4-IN-1 ESC

Aslan **80A PRO 4-in-1 6S ESC**

A four-channel electronic speed controller rated at 80 amps continuous per channel: a sustained figure, not a burst headline, with clean power delivery to the flight controller.



80 A	8-Layer	Bluejay v0.21	18.34 g
CONTINUOUS / CHANNEL	MAIN PCB	ESC FIRMWARE	BOARD WEIGHT

DESIGN INTENT

The 80A PRO is built for high-current work that lasts: sustained aggressive flight profiles on FPV, cinematic, heavy-lift, and training multirotor platforms, where thermal behaviour and supply stability decide whether a system finishes its flight. Ratings are stated at continuous load so the number on the sheet is the number you can design against.

CORE ARCHITECTURE

- Four independent channels at **80 A continuous** each, rated for sustained thermal load
- **EFM8BB21** MCU running **Bluejay v0.21**: open, actively maintained, and field-updatable
- **8-layer main PCB** engineered to pull heat out of the switching stage
- Motor order and rotation direction are set in firmware, so no rewiring and no rework

POWER & PROTECTION

- **Dual VBAT and ground pins** on the connector hold flight controller supply steady under transient load
- Onboard **ceramic capacitor bank** for consistent, clean system power
- Provision for **externally mounted electrolytic capacitors** to suit the pack
- **TVS diode** clamps harmful voltage spikes at the input

INTERFACES & INTEGRATION

- **10-pin JST GH** connector for the flight controller interface
- **2 × VBAT** and ground to the flight controller
- Dedicated **current monitor** signal for accurate consumption telemetry
- Four motor signal lines supporting bidirectional DSHOT
- 30.5 × 30.5 mm M3 mounting with silicone grommets

FLIGHT CAPABILITIES

- **Bidirectional DSHOT** for closed-loop RPM telemetry back to the flight controller
- **RPM filtering** and **dynamic notch filters** for a clean gyro signal at any throttle
- **Dynamic idle** for predictable authority at low throttle
- **DSHOT 600 / 300** signal rates

SPECIFICATIONS

SKU **101082** · RETAIL **$99.84 / ea.**

CONTINUOUS CURRENT	80 A per channel
CHANNELS	4 (integrated 4-in-1)
FIRMWARE	Bluejay v0.21
MCU	EFM8BB21
SIGNAL PROTOCOL	Bidirectional DSHOT 600 / 300
FC INTERFACE	10-pin JST GH
TELEMETRY	RPM · current monitor signal
PCB	8-layer, high dissipation
PROTECTION	TVS diode · ceramic cap bank
MOUNTING	30.5 × 30.5 mm, M3 + grommets
SIZE	52 × 45 mm
WEIGHT	18.34 g

Ben Barani
CHIEF OPERATING OFFICER

benkb@aslanmotion.com · 540.922.9631
Radford, Virginia

ASLANMOTION.COM
ASLAN MOTION TECHNOLOGIES · RADFORD, VA

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