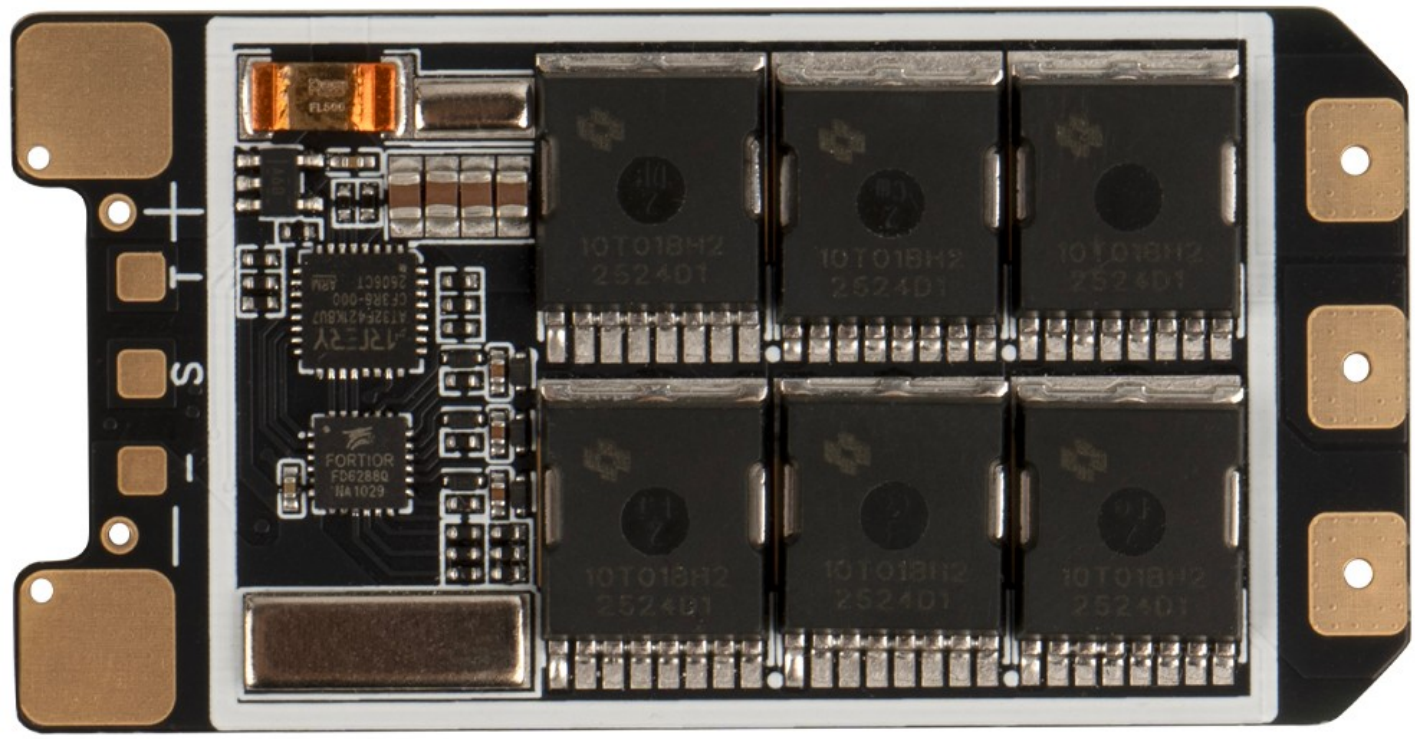




Single-motor electronic speed controller built around the AT32F421K8U7 microcontroller running AM32 firmware. Operates on 6-8S LiPo input voltage with 100A continuous current handling and 120A peak current capability. Features bi-directional DShot support with DShot300, DShot600, and PWM protocol compatibility. Includes current telemetry output and solder pad connections for power, signal, and motor outputs. The unit incorporates two 1000μF 35V capacitors and measures 32 x 61mm with a weight of 50g. Requires active cooling when used with propellers larger than 7 inches. Operates in temperatures from -20°C to 40°C at 20-95% relative humidity.

Product details	
Model	32bit AM32 120A 6-8S
SKU	5941
Electrical specification	
ESC type	Single motor
Continuous current	1 x 100 A
Peak current	1 x 120 A
Input voltage	6 - 8S
Capacitor included	2 x 1000 μF @ 35 V
Power connector	Solder pads
MCU	
ESC MCU	AT32F421K8U7
Firmware	AM32
ESC configurator	AM32 Configurator
ESC protocols	DSHOT300, DSHOT600, PWM
Bi-directional DShot	yes
Interfaces	
Control connector	Solder pads
Telemetry support	Current

Motor output wire	Solder pads
Mechanical specifications	
Dimensions	32 x 61 mm
Weight	50 g
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Cooling requirements	Active (>7" props)
Common	
Package contents	Solid-state capacitors , Heat shrink tubing, Power cord, Set of cables
Warranty	2 years

Wiring diagram

