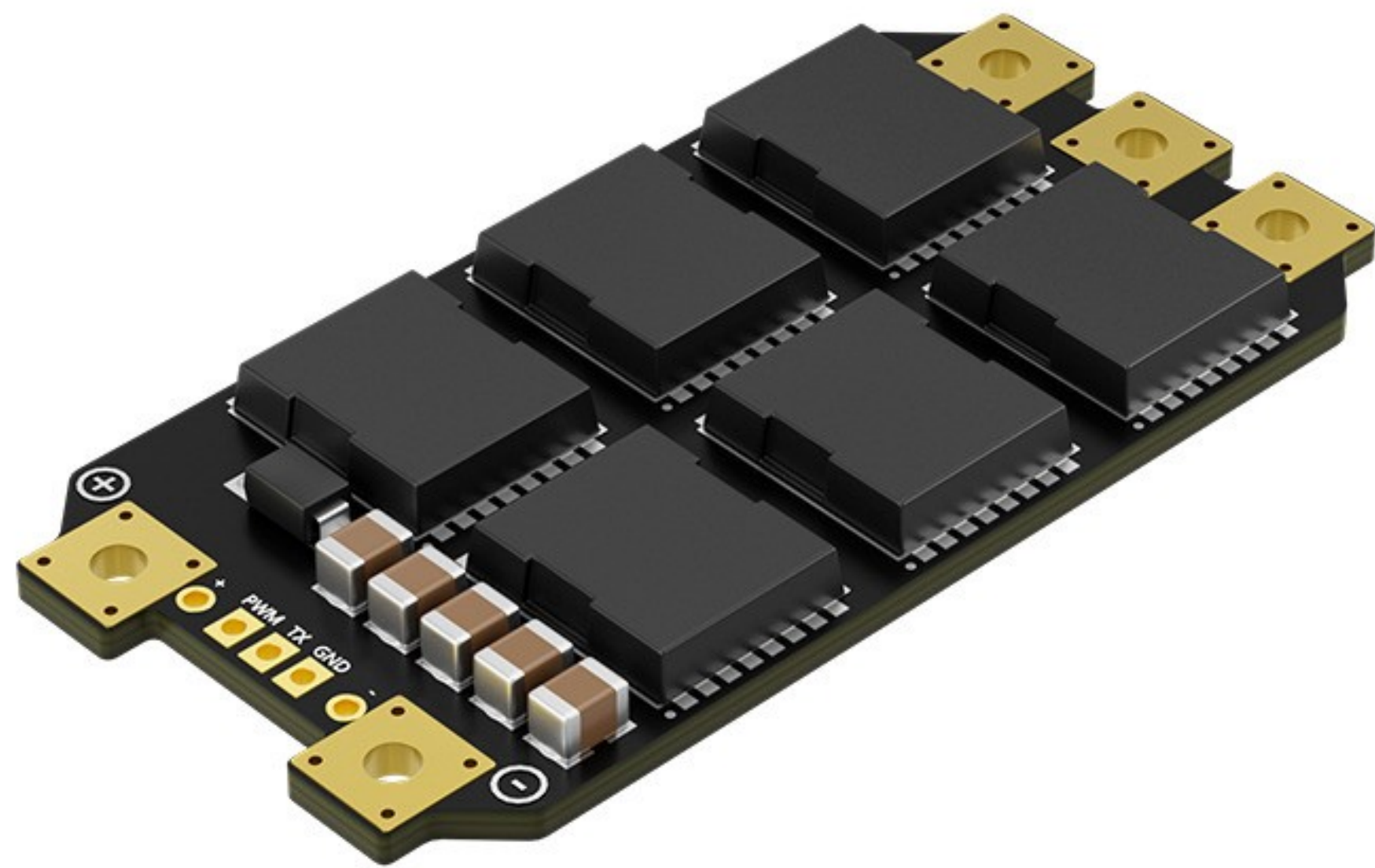




The Single 12S 100A is a single motor electronic speed controller designed for high-performance FPV applications. It operates with an input voltage range of 6 to 12S and supports continuous and peak currents of 100A and 120A respectively. The device features telemetry support for monitoring current, voltage, temperature, and RPM, and utilizes the AT32F421K8U7 microcontroller with AM32 firmware for efficient operation. It is capable of operating in temperatures from -20°C to 40°C and has a weight of 19 grams, suitable for dynamic aerial environments.

Product details	
Model	Single 12S 100A
SKU	7672
Electrical specification	
ESC type	Single motor
Continuous current	1 x 100 A
Peak current	1 x 120 A
Input voltage	6 - 12S
Capacitor included	2 x 330 µF @ 63 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	JST-SH 1.0 mm
Telemetry support	Current, Voltage, Temperature, RPM

Motor output wire	Solder pads
Mechanical specification	
Dimensions	29 x 58 mm
Weight	19 g
Operating conditions	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Cooling requirements	Active (>7" props)
Common	
Package contents	Solid-state capacitors , Heat shrink tubing, Power cord, Set of cables
Warranty	2 years

Wiring diagram

