



The ESC 4in1 90A AM32 is an electronic speed controller featuring a 4-in-1 design that supports an input voltage range from 3 to 8S. With a continuous current handling capability of 90A and a peak current of 100A, it is equipped with an AT32F421K8U7 microcontroller and operates with firmware labeled AM32. The ESC supports various protocols including DShot150, DShot300, DShot600, Multishot, ProShot, PWM, and OneShot, with bi-directional DShot functionality. It operates within an ambient temperature range of -20°C to 40°C and can be stored at temperatures between -30°C and 50°C while maintaining a humidity range of 20-95% RH (non-condensing).

Product details	
Model	ESC 4in1 90A AM32
SKU	8210
Electrical specification	
ESC type	4 in 1
Input voltage	3 - 8S
Continuous current	90 A
Peak Current	100 A
MCU	
MCU	AT32F421K8U7
Firmware	AM32
ESC configurator	AM32 Configurator
Protocols	DShot150, DShot300, DShot600, Multishot, ProShot, PWM, OneShot
Bi-directional DShot	yes
Interfaces	
Power connector	Solder pads
Capacitor included	2 x 1000 $\mu$ F @ 35 V
Control connector	JST-SH 1.0 mm

Telemetry support	RPM, Temperature, Voltage, Current
Motor output wire	Solder pads
<b>Mechanical specification</b>	
Dimensions	55 x 52 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	33 g
<b>Operating conditions</b>	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Cooling requirements	Passive (natural airflow)
<b>Common</b>	
Package contents	8-pin cable, Shock-absorbing balls (4x), Screws (4x), Nuts (4x), Power cord, Solid-state capacitors (2x), Heat shrink tubing
Warranty	2 years

### Wiring diagram

