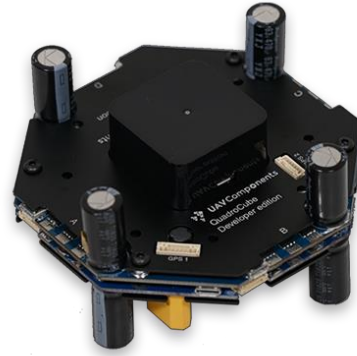


QuadroCube



An advanced ESC (Electronic Speed Controller) offering higher efficiency, better control with four motor controllers, and easy integration with Pixhawk 2 (cube).

QuadroCube delivers efficiency and reliability to your robotic solution by setting new standards for expectations from an electronic speed controller (ESC). QuadroCube integrates seamlessly with the Pixhawk 2 (cube), radio links, and optionally with a companion computer.

This ESC features four powerful motor controllers with industry-leading sensor-less FOC control for high performance and a fast and precise control loop.

By adding QuadroCube to your robotic solution you achieve a completely new level of control and reliability that will improve your production efficiency by delivering easy integration, lower heat production, and a lower acoustic footprint compared to similar products on the market.

Technical specifications

Motor controllers (4)		Connections to Pixhawk	
Motor current	50A continuous	Telem1	TX, RX, CTS, RTS
Working voltage	ABS max 60V. 3 - 12 cell lipo or li-ion	Telem2	TX, RX, CTS, RTS
Loop types	RPM mode, current mode, duty cycle mode	AUX	1-6
ERPM limit	TBD	PWM	1 - 8, 1-4 are connected to motor controllers
Comutation modes	FOC, trapezoidal mode	Battery monitor	Voltage sense and current sense
Switching frequency	20 kHz, 40 kHz or PDM mode	Power management	Enable and overcurrent signals for all power rails
		GPS1	SDA, SCL, RX, TX, Safety, nIO_LED
Power supply		GPS2	SDA, SCL, RX, TX
Protection	Full redundancy, and individual overcurrent protection on each rail	CAN1	
Input	ABS max 60V. 3 - 12 cell lipo or li-ion.	CAN2	
		CONS	RX, TX
Radio connection options		USB	OTG and RADIO USB
Telem1	TX, RX, CTS, RTS	ADC	1 channel
Telem2	TX, RX	PPM	Input from a radio
Ethernet	Can connect to companion computer	SBUS	Input and output
GPS2	SDA, SCL	Buzzer	
USB	RADIO USB		
PPM	Input to Pixhawk		
SBUS	Input to Pixhawk		



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