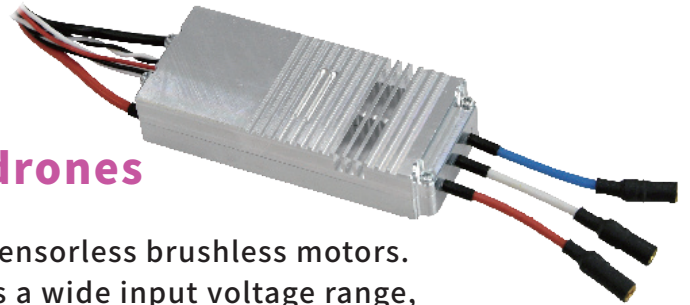


Made in Japan

FUNAI 船井電機株式会社様 共同開発品

Compact and lightweight, high-performance ESCs that contribute to the safe flight of drones

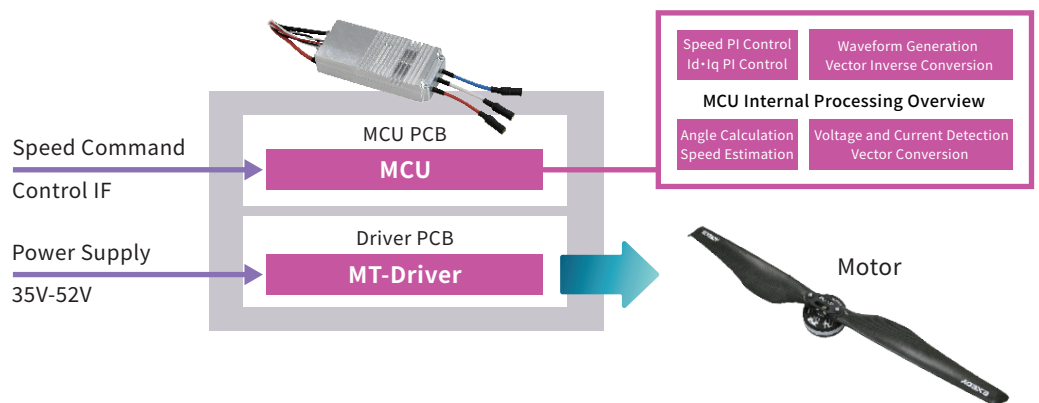


Electronic Speed Controller (ESC) specifically for sensorless brushless motors. With a compact and lightweight design, it supports a wide input voltage range, high output current, and high-speed rotation motors. The internal electronic components are moisture-proof, allowing the ESC to be placed outside the drone's arm. Additionally, it is equipped with multiple protection functions, contributing to the safe flight of drones.

Features

- ▶ 30% lighter compared to other products with equivalent performance
- ▶ Monitors command signals, voltage, temperature, and output current to protect the drone
- ▶ Energy-saving and high-efficiency operation through vector control
- ▶ Moisture-proof coated electronic components
- ▶ High heat dissipation using double-sided heat dissipation MOS-FETs
- ▶ Improves drone maneuverability with high-speed step response

System Configuration



Specifications

500W ESC
DD12S-500-2AA

650W ESC
DD12S-650-2AA

Input voltage	Rated current (line current)	Max. current (line current)	Speed command input	Control method	Drive method	External dimensions	Weight (excluding wires)
35-52V	23 Arms	63 Arms (10sec)	PWM	Sensorless speed control	Sine wave drive	Approx. 78.7 × 32.5 × 15.5mm	Approx. 55g

* Please use the 500W ESC with a 500W motor and the 650W ESC with a 650W motor.