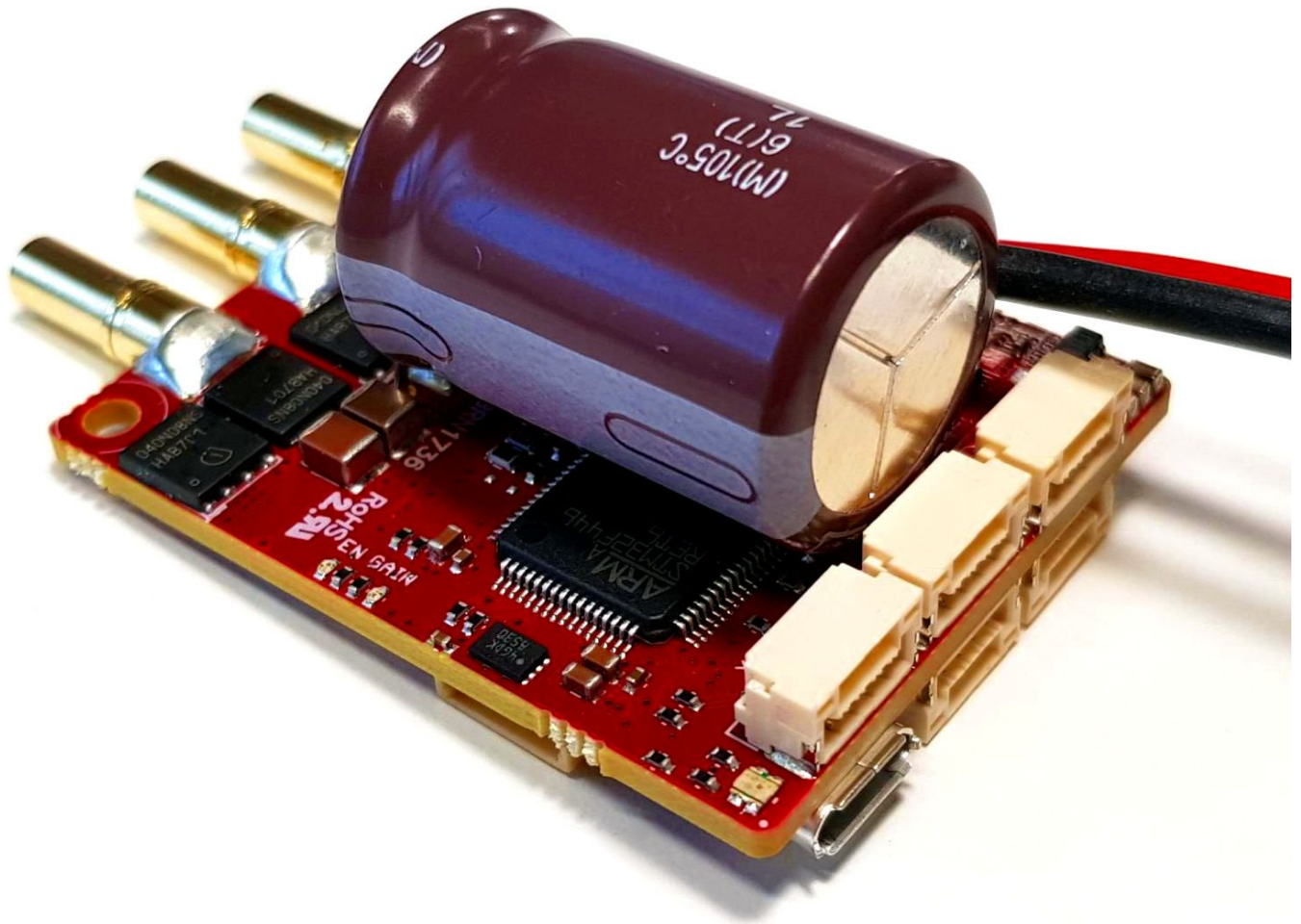


Myxa

High-end ESC for light unmanned aircraft and watercraft



Myxa is a high-end PMSM controller based on the Télega motor control technology. Myxa is available in three versions:

1. **Myxa A** is optimized for cost-sensitive applications. Being priced at only €99 (no MOQ restrictions), Myxa A is an affordable replacement for legacy ESC.
2. **Myxa B** is optimized for mission-critical applications. It is equipped with doubly-redundant CAN bus interface and advanced safety features.
3. **Myxa CC** is a lightweight, extremely compact ESC-on-module optimized for multirotor UAV. Myxa CC is intended for use in custom PCB designs.

Features

- Myxa builds upon the advanced algorithms implemented in the Télega motor control solution¹.
- Lightweight and compact design.
- High continuous power output:
 - up to 600 W with a heat sink (Myxa A/B);
 - up to 400 W without heat sink (Myxa A/B).
- Robust interface connectors compatible with UAVCAN and Dronecode Autopilot Connector Standard.
- Bullet 3.5 power connectors.

Product comparison matrix

Product	Myxa A	Myxa B	Myxa CC
Power output	600 W 400 W without heatsink	600 W 400 W without heatsink	300 W
Supply voltage	12...50 V (4S...12S)		
Motor phase current, continuous	30 A		25 A
Motor phase current, short term	50 A		
Operating temperature	-40...+85 °C		
Max electrical RPM	100 000		
Sensorless operation	✓		
CAN bus	✓		
Doubly redundant CAN bus	✗	✓	✓
USB	✓		
UART	✓		
RCPWM input	✓		
Analog input	✓		
GPIO available for scripting	1 GPIO 1 GPIO+analog (mixed signal)		
Interface connectors	2x JST GH 4-pin for CAN1 2x JST GH 4-pin for CAN2 Micro USB type B JST GH 4-pin for GPIO + analog + RCPWM Dronecode DCD-Mini for UART & Debug		USB, CAN1, CAN2, GPIO + analog + RCPWM on soldering pads Dronecode DCD-Mini for UART & Debug

¹ Learn more about Télega at goo.gl/yUdaQE

Power connectors	Bullet 3.5		Soldering pads
BEC power output (disableable)	x	5 V 200 mA	x
Primary application domains	UAV propeller & fan drives Propeller & pump drives for unmanned watercraft CMG drives for LEO spacecraft		Multicopter UAV
Mass	26 g	27 g	20 g
Dimensions	55×35×19 mm	55×35×20 mm	35×35×7 mm
Mechanical mounting	3×M2.5 holes		SMD pads
Preview availability	Now		2Q 2018
Market availability	Now		2Q 2018

Customized ESC designs

Zubax Robotics provides customization services for Telega-based motor controllers. The following options are available upon request:

- Phase current up to 90A
- Extended temperature range (-40...105 °C)
- Custom shapes of the PCB
- Plastic or metal enclosures
- Heatsinks
- Custom interfaces and interface connectors

