

# ESC-4M80A-8S

4 in 1 ESC 80A Electronic Speed Controller

User Manual



rev: 260325  
Made in Taiwan

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## INTRODUCTION

The **ESC-4M80A-8S 4 in 1 ESC 80A Electronic Speed Controller** is a state-of-the-art electronic speed controller designed for high-performance drones and quadcopters. With a powerful 80A continuous current and a burst current of 90A (8S), this ESC is built to meet the demands of advanced RC vehicles. The ESC is compatible with a wide voltage range, making it versatile for different power setups.

The ESC-4M80A-8S supports various protocols, including Dshot150/300/600, Oneshot42/125, and Multishot, ensuring compatibility with a range of RC controllers. The PWM provides precise control and responsiveness, while the TVS protection shields the ESC from voltage spikes. The ESC features a 30.5mm/M4 mounting pattern, making it easy to install on most drone frames. Additionally, the AMASS Original XT60 connector and high-frequency 1000uF/45V capacitor ensure reliable power delivery and consistent performance.

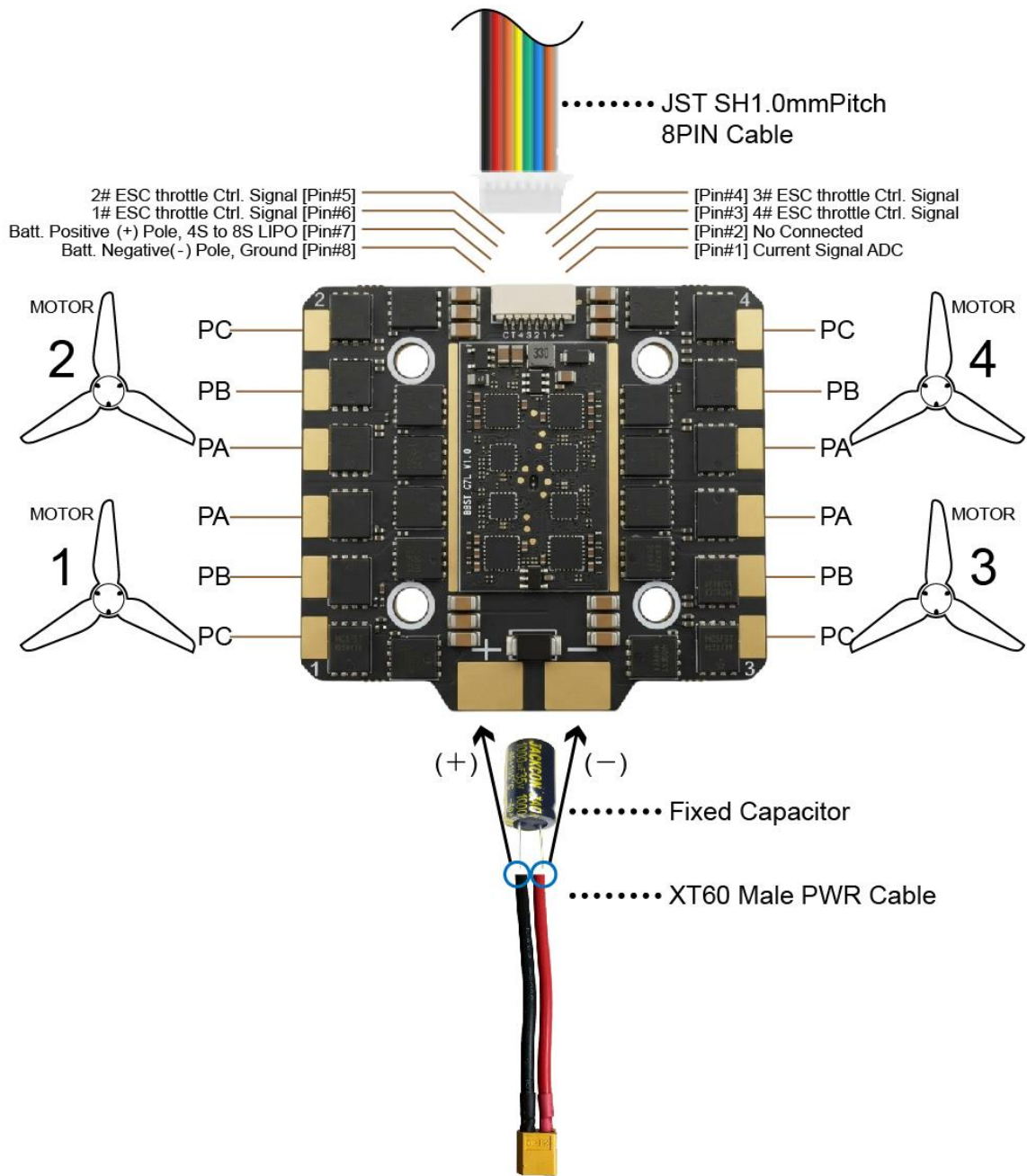
## FEATURES

- Dimension: 53mm\*40mm
- Fixed Hole: Approx. 30.5mm x 30.5mm, M4
- Number of supported motors: 4
- Input voltage: supporting 4-8S battery input
- Equipped with TVS protection to safeguard against potential voltage spikes.
- Maximum Continuous Operating Current: 80A
- Support: DSHOT150, 300, 600, PWM, Oneshot125, Oneshot42 and Multishot.
- Equipped with high-frequency drive, enhancing response time and stability, offering a smoother flight experience.
- The 4-in-1 design saves space and reduces wiring clutter, making installation easier and more efficient

## PACKAGE CONTENTS

- 1x ESC-4M80A-8S
- 1x Capacitance
- 4x Rubber Mat
- 1x 8PIN Cable (1.0mm Pitch)
- 1x XT60 Male Power Cable

# PIN DESCRIPTION



Pin #	Name	Description
1	CUR	Current Signal ADC
2	NC	No Connected
3	M4	4# ESC throttle control signal
4	M3	3# ESC throttle control signal
5	M2	2# ESC throttle control signal
6	M1	1# ESC throttle control signal
7	VBAT	Connect directly to Battery Positive Pole, 4S to 8S LIPO
8	GND	Ground, Battery Negative Pole

## WARRANTY

The SELLER warrants the **ESC-4M80A-8S 4 in 1 ESC 80A Electronic Speed Controller** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the ESC-4M80A-8S features and specifications is subject to change without further notice.**