

QuicRun Fusion Mini16

Dedicated power system for 1/16 & 1/18 crawler machines



Integrated Design



Adjust Drag Brake Force In Real Time



Foc Drive



Smart Torque Output



IP 65 Protection Level



Super Internal BEC



Supports Optional Motor Adapter



Wide Applicability



Three Operating Modes

QuicRun Fusion Mini16

Integrated design

The Fusion mini16 is the first commercialized FOC integrated power system suitable for 1/18th and 1/16th scale models in the industry. The frame layout is compact 24*42mm and lightweight 72g (including wires and plugs).

The petite size of the Fusion mini16 is aesthetically beautiful and solves wiring issues on smaller crawling vehicles.



Adjust drag brake force in real time

Connect the yellow signal wire to the open channel on the remote control to adjust the drag brake force in real time. Adjusting drag brake on the fly can be achieved to meet various application environments.

Note The yellow signal wire is also the programming wire. Please refer to the instruction manual for the connection method.

FOC drive, good linearity, high torque, nearly silent

The Fusion mini16 is equipped with a FOC drive method. The large torque and excellent linearity when operating at low speed further exceeds standard brushless systems, and matches the feel and control of brushed systems. The Fusion mini16 is nearly silent.

Smart Torque Output & Closed-loop Speed Control for Easy Control

The Fusion mini16 system automatically increases the torque output to overcome resistance and accelerate up the hill. Vice versa, the ESC automatically reduces the torque output and stabilizes the vehicle speed when going down the hill. The smart output torque is able to effectively control the speed and provide smooth control at all times.



Note When the operating mode is set to normal mode, there is no fixed speed function, which is similar to a brushed system.

IP 65 protection level

The Fusion mini16 is IP65 protected. It has excellent waterproofing and dust-proofing performance to cope with complex and various running conditions.

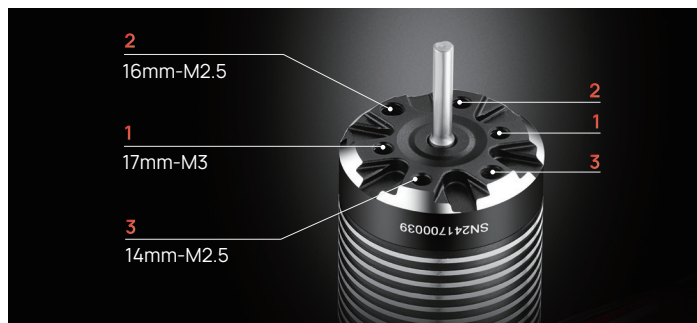
Super Internal BEC

The powerful BEC has a continuous current of 4A and a maximum current of 10A. The output voltage is switchable between 6V/7.4V and is suitable for various standard/high-voltage servos on the market.

Supports optional motor adapter, compatible with 25.4mm mounting holes

The motor is built in a set of 14mm-M2.5/16mm-M2.5/17mm-M3 mounting holes. When the frame mounting hole is 25.4mm, an optional motor mounting conversion plate is available for purchase to adapt to more large-scale vehicle models.

Note The conversion plate is an optional accessory and needs to be purchased separately!



Wide applicability

The power system is not only suitable for 1/16th and 1/18th climbing models, also suitable for 1/14th, 1/12th and 1/10th lightweight single-speed scale models. ($\leq 1.8\text{kg}$, gear ratio ≥ 60).

Note Since the proportions and sizes of each manufacturer are different, please check whether there is enough space for the motor in the frame before purchasing. For example, Traxxas 1/18 TRX-4M is not suitable for this power system.

Supports three operating modes

The Fusion mini16 supports the classic "fixed speed mode (Forward and Reverse)", the "normal mode (Forward/ Reverse with Brake)" and the "normal mode without fixed speed function (Forward and Reverse)" to meet a variety of application needs.

Supports various LED / LCD programming boxes

The ESC not only supports simple LED programming boxes, but also supports high-end products like the LCD programming boxes with a more complete display.

A vast variety of parameters

The Fusion mini16 has a vast variety of parameters for adjustment. It has a total of 13 adjustable parameters to meet various application setting needs.

QuicRun Fusion Mini16

Main applications: 1/16 & 1/18 Crawler



Crawler

Continuous / peak current: 30A / 80A

Lipo Cells: 2-3S Lipo, 6-9 Cells NiMH

BEC Output: 6V / 7.4V adjustable, continuous current 4A (switching regulator mode)

Programming port: Independent programming cable

Diameter / Length of motor: 24mm / 42mm

Shaft diameter / exposed shaft length: 2.3mm / 13.5mm

Motor KV: 3000KV

Motor Poles: 4