ESCAPE_32 30A Brushless ESC Bluetooth Parameter Setup Instruction

Specification：

Model：Escape32-30A

MCU：SMT32G071

Input Power：2-6S(Lipo)

Continuous Current：30A（with Excellent Cooling）

Peak Current：35A（with Excellent Cooling）

BEC：5.5V/5A　6.5V/5A　7.4V/5A　8.4V/5A（After changing parameters via the APP, apower cycle is required for the new settings to take effect.）

Waterproof: supported

Transmitter Protocol：PWM Dshot, etc

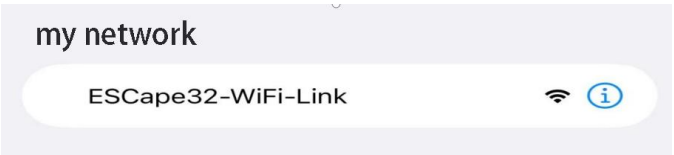
Programming：WIFI connector to program

Support：Automatic throttle calibration, timing advance setting, current detection, telemetry signal,motor rotation direction, BEC switching, dual-color LED programming.

ESC ON-OFF：ON

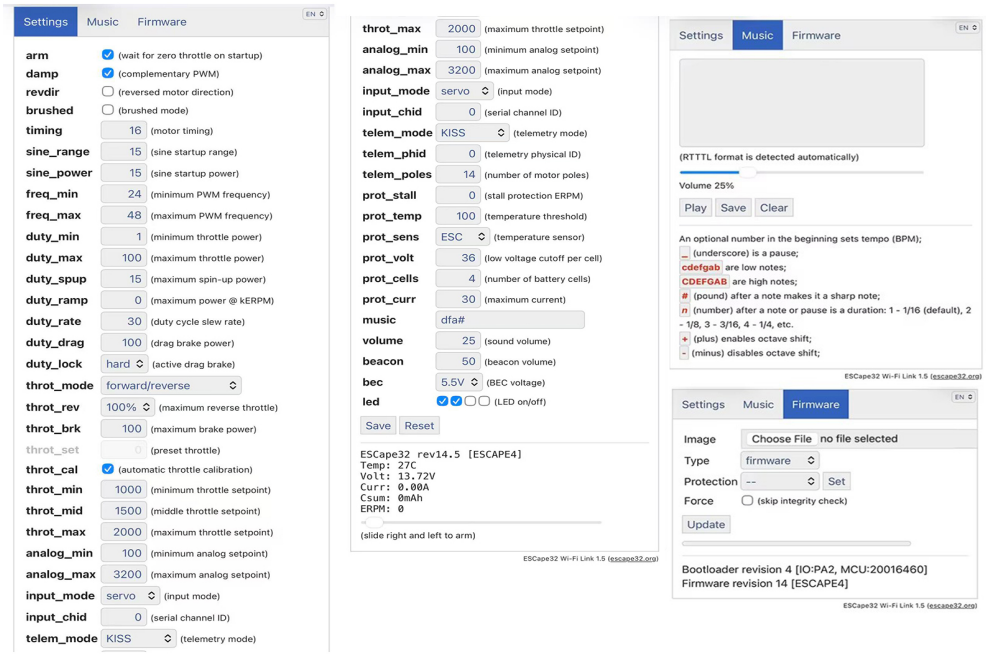
WIFI programming instruction：

To power on the ESC, insert the ESC's DuPont signal cable into the WiFi module. This WiFi module supports both USB power supply and the ESC's built-in BEC power supply (5-12V). After insertion, wait 3-5 seconds, then turn on the phone's WiFi.



Simply go to your mobile **WIFI** settings and find the **WIFI link**. Click on the link to enter the parameter adjustment interface to configure your settings.

Screenshot



Adjust for Rock Crawlers

The following general methods can be used for adjustment:

- Reset the settings to defaults.
- Enable bidirectional throttle by setting to 1 (forward/reverse). **throt_mode**
- Ensure that the motor operates well in trap mode. In certain special circumstances, you may need to adjust the motor **PWM** frequency and/or other settings in some corner cases.
- Enable the sine startup mode **sine_range**.
- Set the required power level for use **sine_power**. **Please use with caution because higher values may cause overheating.**
- Increase stall protection **ERPM** threshold， **prot_stall** until the motor obtains sufficient power boost for smoothly transition between sine startup and trap mode.This value should not be too high (mostly 2200-2800) to maintain **sine_power** low position without losing step.
- Enable temperature protection by setting to 100'C or so. (IMPORTANT!!!)**prot_temp**
- If necessary, set up the use of resistance brakes. **duty_drag**

Adjust for RC Cars

Proportional brake mode is designed for use in Rc cars. in this mode, proportional motor brake is engaged the first time throttle goes into reverse. General Steps:

- Resets the settings to the default values.
- Enable bidirectional throttle by setting to 1 (forward/reverse). **throt_mode**
- Disable damped mode (complementary PWM) to allow the motor to coast while running.

Adjust for Inertia Load

in cases when a motor drives an inertial load (a propeller or a flywhee), it may be necessary to limit maximum power at lower RPM during a full throttle punch in order to prevent desyncing or even frying the motor/ESC due to over saturation of the coils.

Parameters **duty_ramp** (Maximum Duty Cycle Ramp) enables the maximum power limit to change linearly from **duty_spup** (zero **RPM**) to **duty_ramp** 100% (**kERPM**) based on **RPM**. The parameter **duty_rate** (duty cycle slew rate) is used to control the speed of the power change (the higher value, the more flexible).