Introduction

Based on the performance and design features of the first-gen NEURON ESC products, the NEURON II line steps it up by offering a broader selection of ESC models to various demands in different applications.

The NEURON II 60 comes with a fully enclosed all-CNC machined aluminum casing design, ensuring efficient heat dissipation while handling a continuous current of 60A. The NEURON II series can transmit telemetry data from built-in sensors to the radio by the receiver, allowing users to get real-time insights right from the radio system. RPM, power consumption, temperature, input/output voltage, and current readings are all at your fingertips.

With added support for the FBUS protocol, the NEURON II takes convenience to a whole new level! Users can now easily configure the BEC output voltage and other ESC parameters directly from the transmitter via the receiver. Or with even more flexibility, hook up NEURON II ESC to the ETHOS radio's S.Port for seamless wired configuration without requiring a receiver (this feature will be available on ETHOS 1.5.0 and later versions). The traditional configuration method through a PC webpage is also retained. There's more! The NEURON II 60/80 compatible motors.



Specifications

- Dimension: 59×34×15.2mm(L×W×H)
- Weight: 75g (with wires included.)
- Battery Input Voltage Range: 11.2-25.2V (3S-6S Li batteries)
- BEC Output Voltage Range: 10A@5V~8.4V (Adjustable & Voltage Step 0.1V)
- Continuous Current: 60A

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Instruction Manual for FrSky Neuron II 60

Features

- All-CNC Machined Aluminum Case aiding in Heat Dissipation
- Various Telemetry Data (for ESC & SBEC) via FBUS / S.Port
- Telemetry data for ESC: Batt Voltage & Current (Resolution 125mA, Precision ±2%), RPM, Power Consumption, Temperature.
- Telemetry data for SBEC: Output Voltage & Current (Resolution 50mA, Precision ±2%).
- Adjustable SBEC Output Voltage & ESC Parameters by LUA scripts (on ETHOS, OPTX radios.) or PC Configuration Webpage (by STK tool)
- Supports Various Signaling Inputs for Motor Control (PWM, DShot, OneShot)
- High-Performance32-bit Microprocessor
- Over-Temperature and Over-Current Protection



Parameter Configuration (PC Webpage Programming via STK tool)

The FrSky ESC Neuron II 60 supports editing parameters through the STK tool. The STK tool is not included in the packaging and needs to be purchased separately by the user.



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Note: To configure the N power supply to th button on Webpage	euron II ESC, please connect the STK tool to your c le Neuron II ESC. Once powering the ESC then, pl e Configurator in 5 seconds to complete the connec	computer and connect the ease click the "Connect" ction.
The configuration methods p functionality description ma instructions.	provided below are for reference only. Due to firmware a y vary. Please refer to the latest official user manua	updates or other reasons, the al for accurate configuration
Here are the descriptions of	of various features on the web-based ESC configurat	tion page of FrSky Neuron II.
IR Frsk	Configurator	
Cverview Settings Verview Settings		USB UART - Disconnect ReScan
1 Reverse motor direction Ski Current calibration (%) 100 Application ID 0 Respon	w start Code start ESC berges PVM Min. 1000 PVM Max. 2000 Soft brake Current Imit(A) 65 BEC output Voltage(V) 5 Activated 1 Tropecidad commutation Physical as Time(*150ma) 2 High demag protection Mater pole count 12 Throttle channel 3 On/W/X	ID 10 V
1. Reverse motor direction: Checking this option will r	This feature allows you to control whether the motor sp everse the motor direction.	ins in the opposite direction.
Reverse motor direction		
2. Slow start: It controls the	gradual acceleration of the motor during startup to avoid	sudden and strong reactions.
Slow start 🔽		
3. Soft start: This feature er and load on the motor.	ables a smooth acceleration of the motor during startu	ıp, reducing the impact force
Soft start		
4. ESC beeps: It determines status.	whether the ESC emits audible beeps during startup,	serving as an indicator of its
ESC beeps 🔽		
5. PWM Min: This setting de throttle position.	etermines the minimum PWM signal value that the ESC	C will recognize as the lowest
PWM Min.	1000	
6. PWM Max: It sets the ma	ximum PWM signal value that the ESC will recognize a	s the full throttle position.
PWM Max.	2000	
7. Soft brake: This feature c low throttle.	ontrols whether the ESC implements a smooth braking	g action when transitioning to
Soft brake 🔽		
8. 3D Mode: It activates a s actions.	pecial mode in the ESC suitable for performing aeroba	atic maneuvers and 3D flight
3D Mode		

Re-SHU	Instruction Manual for FrSky Neuron II 60
9. Current calibration(%): Th precise current data.	is option allows you to calibrate the ESC to accurately measure current, providing
Current calibration (%)	100
10. Current limit: It lets you se from overloading.	t the maximum current output limit of the ESC to protect both the ESC and the motor
Current limit(A) 85	
11. BEC output Voltage: You	can specify the output voltage of the ESC's built-in BEC (Battery Eliminator Circuit).
BEC output Voltage(V)	5
12. Activated: Display ESC A	ctivation Status.
Activated 1	
13. Trapeziodal commutation	1
Trapeziodal commutation	n 🔽
14. Physical ID: This setting s	specifies the physical ID used for communication.
Physical ID 10	
15. Application ID: This settin	g specifies the Sensor ID used for communication.
Application ID 0	
16. Response Time(*100ms)	: It determines the time gap between communications.
Response Time(*100ms)	2
17. High demag. protection	
High demag. protection	
18. Motor pole count: It refers count to ensure proper m	to the number of magnetic poles inside the motor. You need to set the correct pole otor rotation and ESC commutation.
Motor pole count 12	2
19. Throttle channel: Specify ESC, such as SBUS/FBL	the serial port signal channel for the throttle channel input signal used to control the IS.
Throttle channel 3	
20. OneWire ID: This feature	assigns a unique ID to each ESC when using OneWire bus communication.
OneWire ID 1	
These features offer a wide r and flight preferences. Speci device support. Please consu using these options.	range of configuration options to meet the requirements of different types of aircraft fic features and options may vary based on the version of FETtec Configurator and It the relevant documentation or official guides for more detailed information before
I	
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Instruction Manual for FrSky Neuron II 60

Parameter Configuration (ETH)	OS Lua Progr	amming via FBUS / S	.Port)			
Here are the descriptions of various features on the ETHOS LUA configuration page of FrSky Neuron II ESC.						
FrSky ESC ETHOS		Þ				
Rotation Direction	Normal 🔻					
Use Sin Start	on 🔻					
Soft Start	OFF 🔻					
ESC Beep	ON 🔻	-				
PWM Min(Effective after restart)	100					
PWM Max(Effective after restart)	2000					
Soft Brake	ON V					
Rotation Direction		Normal 🔻				
This feature allows you to control w reverse the motor direction.	hether the mot	tor spins in the opposite	direction. Checking this option will			
Use Sin Start		ON				
Use Sine Wave Start			_			
Soft Start		OFF				
This feature enables a smooth accele motor.	eration of the m	otor during startup, reduci	ing the impact force and load on the			
ESC Beep		0	N 🔻			
It determines whether the ESC emits	audible beeps	during startup, serving as	s an indicator of its status.			
PWM Min(Effective after restart)		1000	0			
This setting determines the minimum	PWM signal va	lue that the ESC will reco	gnize as the lowest throttle position.			
PWM Max(Effective after restart)		2	2000			
It sets the maximum PWM signal val	ue that the ES0	C will recognize as the full	throttle position.			
Soft Brake		on 🔻				
This feature controls whether the ES	C implements a	a smooth braking action w	when transitioning to low throttle.			
3D Mode(Effective after restart)		OFF 🔻				
It activates a special mode in the ES	C suitable for p	erforming aerobatic mane	euvers and 3D flight actions.			
Current Calibration		1	00%			
This option allows you to calibrate the	e ESC to accur	ately measure current, pr	oviding precise current data.			
Current Limit		85	A			
FrSky Flectronic Co., Ltr	d. www.fi	rsky-rc.com Contact u	is · frskv@frskv-rc.com			

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Instruction Manual for FrSky Neuron II 60

BEC Voltage 5.00V You can specify the output voltage of the ESC's built-in BEC (Battery Eliminator Circuit). Trapezoidal Mode ON Trapezoidal Commutation Image: Communication. App Group Id 0 This setting specifies the Sensor ID used for communication. Image: Communication. Time Gap 200ms t determines the time gap between communications. Image: Communication. Motor Pole Count 12 t refers to the number of magnetic poles inside the motor. You need to set the correct pole count to ensure proprotor oration and ESC commutation. FBus Thr CH(Effective after restart) 3 Specify the serial port signal channel for the throttle channel input signal used to control the ESC, such SUS/FBUS. High Demag prot OFF High Cense; the telemetry sensor configuration and feedback for the ETHOS system. Image System Strate	ovenoaung.	nt output limit of t	he ESC to protec	t both the ESC	and the motor from
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• Before using the ESC, please read through the manuals of all power devices and models. Ensure rational power configuration, or it will make the unit overloaded and damaged.

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IRFISHS

Instruction Manual for FrSky Neuron II 60

- Always keep your model away from unsafe elements, such as concrete buildings and high-voltage power lines. Fly your models according to the manual strictly, or it may cause damage and serious injuries.
- Always disconnect the batteries from the ESC after use, or it may drive the motor to rotate and cause injuries. If the ESC is connected to the battery for a long time, the battery will be fully discharged, which may lead to the malfunction of both batteries and the ESC

Firmware Upgrade for NEURON2 ESC

- Configuration Device: STK Tool (Separate Purchase Required)
- Webpage Configurator: https://gui.fettec.net/FrSky/ESC/



the "USB UART" port on the Configurator webpage. this moment and then click the "Connect" button.

Step 1: Connect the STK tool to the PC, and select Step 2: A connecting request window prompts up at

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Step 3: Connect the NEURON2 ESC to the S.Port 2 and switch the Dip to "Upgrade" mode. Once powering the ESC then, please click the "Connect" button in 5 seconds to complete the connection.



the path of the firmware to update the ESC.



Step 4: Click the "Local Firmware" button and find Step 5: Click the tab "Flash selected" waiting for the completion of the flashing bar. A prompt of the "Warning" window means the flash is done.