

Stable F4 MiniTower Manuals Version: 1.0

Name: Stable F4 MiniTower Model 12A version: GEP-F4-BS12A-VTX58200-M Model 20A version: GEP-F4-BS20A-VTX58200-M



User Manual v1.0 2017/12/25





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Overview

Stable F4 MiniTower is the solution of the tower structure designed by our team specially for the micro drone FPV, Integrated flight control, esc, VTX.It has been updated to V1.2, very stable. The firmware is relatively mature based on the flight control design of OMNIBUS/ OMNIBUSf4SD (Betaflight). The Stable Mounting Hole is 20*20mm, which is suitable for most racks.

Simple, Stable is the advantage of Stable F4 MiniTower. The 4IN1 esc is based on the BLHeli_s, which supports the fast throttle response of Dshot, with two versions 12A and 20A. The power of 5.8g VTX is optional for off/25/100/200mW. It can also close the power of the power output, not affect other pilots, and has 48 channels adjustable, audio input function and accurate power. F4 flight control, they are coordinated, highly integrated, very stable, and easy to install, reducing the pilot's installation time.

Specifications

- Model: Stable F4 Tower
- Size:25×25mm
- Installation height:20mm
- Screws:M2×25mm
- Mounting Hole: 20x20mm
- Recommended the plate thickness: 2-4mm
- Weight: 9.5g

Flight Controller (Omnibus F4 Flight Controller)

- Firmware: betaflight 3.2.1 (OMNIBUSF4SD)
- OSD Firmware: Betaflight OSD
- Video Camera Voltage:5V only
- Support Voltage monitor, buzzer and LED
- Support DSMX , SBUS and PPM Receiver
- Board Size:25×25mm
- Weight:2.3g

ESC 4 IN 1 (BLHelis 12A)

- PDB:Integrated
- Battery Monitoring:Integrated
- FC Power:Integrated
- Input Voltage:2–4S(12A)
- Con. Current: 12A
- Peak Current: 15A (5s)
- Oneshot 125/42 : YES
- Dshot 150/300/600:YES
- BlheliSuite Configurable:YES
- Firmware Version:BLHeli_S/Dshot 150/300/600 16.6(G_H_30/L_H_0)
- Board Size:25×25mm



• Weight:2.8g(12A)

ESC 4 IN 1 (BLHelis 20A)

- PDB:Integrated
- Battery Monitoring:Integrated
- FC Power:Integrated
- Input Voltage:2-4S(12A)
- Con. Current: 20A
- Peak Current: 30A (5s)
- Oneshot 125/42 : YES
- Dshot 150/300/600:YES
- BlheliSuite Configurable:YES
- Firmware Version:BLHeli_S/Dshot 150/300/600 16.6(G_H_30/L_H_0)
- Board Size:27×27mm
- Weight:3.3g(20A)

VTX(GEP-VTX58200-M)

- VTX Power:OFF/25/100/200mW
- CH:48CH
- VTX Power input:2-6S (using VTX layer alone)
- Video Camera Voltage: 5V

Features:

- Adopt the current popular tower structure solution, simple installation.
- Fast installation, and very stable.
- Reasonable structure size: 25*25mm*20mm (length * width * height)
- Mounting Hole 20*20mm, suitable for most racks.
- STM32 F405 MCU
- BLHeli_S firmware, Support(Oneshot 125/42 and Dshot 150/300/600)
- VTX have 48 channel, The power of VTX can choice OFF/25/100/200mW
- Support DSMX , SBUS and PPM Receiver



Stable Connections

4IN1 ESC







Flight Controller Top Plate Connections







Flight Controller Bottom Plate Connections







VTX Connections

The VTX board not need to be connected to any line, inserting the pin is working.



Wire definition:





VTX Setup Instructions

How do I set up the VTX?

- Set the Channel. In standby mode, press and hold the key for 3 seconds, the blue LED flashes, short press, change the channel value. Every time 1 press will change the CH, followed by 1CH to 8CH cycles.
- Set the Band. In the channel setting mode, press and hold the key for 3 seconds, the green LED flashes, briefly presses, changes the frequency group value. Every time 1 press will change the band, and then the A band to F band loop.
- Set the Power.In the band setting mode, press and hold the key for 3 seconds, the red LED flashes, short press, change the output power value.Every time 1 press will change the power, followed by 25mW / 100mW / 200mW cycle.

	CH1	CH2	СНЗ	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band H	5362	5400	5436	5473	5510	5547	5584	5620
Band R	5658	5695	5732	5769	5806	5843	5880	5917

4. frequency table:

5. VTX LED display

- **5.1.** BLUE: Frequency channel display, the time of flash represents 1 to 8 channels, 1 = CH1,2 = CH2, ... 8 = CH8.
- 5.2. GREE: Frequency Band display, the number of flashes represents the frequency group from A to R,

1=A, 2=B.....6=R

5.3. RED: Power output display, 1 = 25mW, 2 = 100mW, 3 = 200mW.

 How to turn VTX on or off: In the working state, quickly double-click the set button, RED / GREEN / BLUE sync flash, VTX can be turned off, and also quickly double-click of the key to turn on the VTX output.



Stable Software Instructions

What is Betaflight?

The flight controller uses Betaflight firmware, and more:<u>https://github.com/betaflight/betaflight</u>. If you want to configure your flight control, you need to install the VCP driver. Therefore, follow these steps.

Installation driver

Before you can flash your board, you must get the drivers installed on your computer. If you are on MacOS or Linux, Your O/S comes with the drivers you need pre–installed. You do not need to perform this step. You may skip directly to "Installing Betaflight Configurator".

If you are on Windows, you must install the drivers manually. For more, you can refer to video below.



All About Betaflight Drivers, Including How to Install Them

https://www.youtube.com/watch?v=m4ygG6Y5zXI

Please download the following driver and install it.

- CP210x Drivers (<u>https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers</u>)
- STM USB VCP Drivers (<u>http://www.st.com/en/development-tools/stsw-stm32102.html</u>)
- Zadig (<u>http://zadig.akeo.ie/</u>)

Install Zadig

To flash the firmware you have to enter the so called DFU mode. On Windows 10 I had to use a tool called Zadig (download and start it) to be able to switch drivers for DFU mode to work. In order to switch drivers you have to take the following steps.

STEPS:

- Push BOOT button on the flight controller.
- Plug-in the USB cable (the red LED should not be as bright as normally).

GEPRC

	STABLE	
Zadig		- 🗆 X
Device Options Help		
Driver	WinUSB (v6.1.7600.16385)	More Information
USB ID		WinUSB (libusb) libusb-win32
	Install WCID Driver	libusbK
WCID		WinUSB (Microsoft)
0 devices found		7adia 2 2 88

- Click Zadig and hit "Options" and then "List All Devices".

Zadig Device Options Help		– 🗆 X
STM32 BOOTLOADER		∽ □Edit
Driver WinUSB (v6.1.7600.16385) USB ID 0483 DF11 WCID ²	WinUSB (v6.1.7600.16385)	More Information <u>WinUSB (libusb)</u> <u>libusb-win32</u> <u>libusbK</u> <u>WinUSB (Microsoft)</u>
8 devices found.		Zadig 2.2.689

- From the list choose "STM32 BOOTLOADER".
- Under "Driver" choose "WinUSB" on the right and hit "Reinstall Driver".
- Close Zadig, disconnect the flight controller, close all Google Chrome instances.





Install Betaflight Configurator

Betaflight is managed using the Betaflight Configurator application, also known for short as the Betaflight GUI, or just, "The GUI". The Betaflight GUI is a Chrome app. To run it, first you need to install Google Chrome on your computer.

Download link: https://www.google.com/chrome/browser/desktop/index.html

After you download and install Chrome, open Chrome and enter the following url to install the

Betaflight Configurator plug-in.

Open in the url bar: https://chrome.google.com/webstore/detail/betaflight-configurator/

kdaghagfopacdngbohiknlhcocjccjao?hl=en

Here, you can run Betaflight Configurator for configuration.

- 1. Enter the URL chrome://apps/ in Chrome's address bar.
- 2. Click the icon for the Betaflight Configurator



3. Betaflight GUI would be open





Stable F4 MiniTower Manuals



How to flash the firmware

The steps of Stable F4 MiniTower refresh firmware are as follows (As shown) :

- 1. Select the correct port.(Mark 1)
- 2. Select Firmware Flasher tabs.(Mark 2)
- 3. Select the parameters as shown below.(Mark 3)
- 4. Click Load Firmare[Online], download firmware. (Mark 4)
- 5. After the firmware is downloaded, click **Flash Firmware**, and then the firmware is finished and reconnected. (Mark 5)

BETA FL Configurator: 10.0.0	IGHT		/dev/tty.usbmodem141411 115200 Auto-Connect	¢ ¢ Connect
2018-01-12 @ 10:53:14 Using cad	hed release information for firmware releases.			
😪 Welcome				
Documentation & Support	OMNIBUSF4SD \$	Select your board to see available online firmware rele	eases - Select the correct firmware appropriate for you	r board.
Firmware Flasher	3.2.1 - OMNIBUSF4SD - 18-10-2017 03:31 (stabl \$	Select firmware version for your board.		
0	No reboot sequence	Enable if your FC is in boot mode. i.e. if you powered o	on your FC with the bootloader pins jumped or whilst h	olding your FC's BOOT button.
_	Full chip erase 3	Wipes all configuration data currently stored on the bo	oard.	
	Manual baud rate 256000 \$	<i>Manual selection of baud rate for boards that don't su</i> Note: Not used when flashing via USB DFU	pport the default speed or for flashing via bluetooth.	
	Show unstable releases	Show Release-Candidates and Development Releases.		
	Please do not try to flash non-Betaflight hardware wi Do not disconnect the board or turn off your comput Note: STM32 bootloader is stored in ROM, it cannot b Note: Auto-Connect is always disabled while you are in Note: Make sure you have a backup; some upgrades/ Note: If you have problems flashing try disconnectin Note: When flashing boards that have directly connect and drivers installed IMPORTANT: Ensure you flash a file appropriate for you	th this firmware flasher. ter while flashing. e bricked. nside firmware flasher. downgrades will wipe your configuration. g all cables from your FC first, try rebooting, upgrade ted USB sockets (most newer boards) ensure you have our target. Flashing a binary for the wrong target can can Recovery / Lost communic	chrome, upgrade drivers. read the USB Flashing section of the Betaflight manua use bad things to happen. cation	l and have the correct software
	If you have lost communication with your board follow	v these steps to restore communication:	5 4	
			Flash Firmware Conline	Load Firmware [Local]
Port utilization: D: 0% U: 0% Pag	ket error: 0 I2C error: 0 Cycle Time: 0			Configurator: 10.0.0

In general, the flash firmware does not need to press the Boot key to enter DFU mode, unless the unpredicted problem occurs in the firmware process, it needs to be completely re-flash, and then it is flashed by DFU.

- 1. Press the Boot button on the flight control and insert the USB serial port at the same time.(Mark 1)
- 2. Select Firmware Flasher tabs.(Mark 2)
- 3. Select the parameters as shown below.(Mark 3)
- 4. Click Load Firmare[Online], download firmware. (Mark 4)





5. After the firmware is downloaded, click Flash Firmware, and then the firmware is finished and

reconnected. (Mark 5)

•••					
	IGHT			DFU	*
				Auto-Connect	Connect
2018-01-12 @ 10:53:14 Using cache	ed release information for firmware releases.				Show Log
😪 Welcome					
Documentation & Support	OMNIBUSF4SD :	select your board to see available online fir	mware releases - Select the correc	t firmware appropriate for your bo	oard.
Firmware Flasher	3.2.1 - OMNIBUSF4SD - 18-10-2017 03:31 (stabl \$	elect firmware version for your board.			
	No reboot sequence	inable if your FC is in boot mode. i.e. if you	powered on your FC with the boo	tloader pins jumped or whilst hold	ling your FC's BOOT button.
2	Full chip erase	Vipes all configuration data currently store	d on the board.		
	Manual baud rate 256000 ¢	<i>Manual selection of baud rate for boards th</i> <i>Jote: Not used when flashing via USB DFU</i>	at don't support the default speed	d or for flashing via bluetooth.	
	Show unstable releases	how Release-Candidates and Developmen	t Releases.		
		Warn	ing		
	Please do not try to flash non-Betaflight hardware w Do not disconnect the board or turn off your comp	ith this firmware flasher. Iter while flashing.			
	Note: STM32 bootloader is stored in ROM, it cannot	be bricked.			
	Note: Auto-Connect is always disabled while you are Note: Make sure you have a backup; some upgrades	inside firmware flasher. /downgrades will wipe your configuration.			
	Note: If you have problems flashing try disconnecti Note: When flashing boards that have directly conne and drivers installed	ng all cables from your FC first, try rebooting cted USB sockets (most newer boards) ensure	g, upgrade chrome, upgrade drive e you have read the USB Flashing :	rs. section of the Betaflight manual ar	nd have the correct software
	IMPORTANT: Ensure you flash a file appropriate for y	our target. Flashing a binary for the wrong tar	get can cause <mark>bad</mark> things to happ	en.	
		Recovery / Lost o	ommunication		
	If you have lost communication with your board follo	w these steps to restore communication:	5	4	
	A Rower off		Elach Eirenware	Load Firmware [Opline]	Load Firmware II coall
			Flash Firmware	Load Firmware [Unline]	Load Firmware [Local]
Port utilization: D: 0% U: 0% Packe	et error: 0 I2C error: 0 Cycle Time: 0				Configurator: 10.0.0



Initial configuration

After the new firmware is flashed, some basic configuration needs to be initialized.

Ports and Configuration Setup

1. Select the Ports tabs to open Serial RX of the UART6 Serial port so that you can use the

S.BUS receiver and saved.

🗲 Setup	Ports			
😰 Ports	10113			
🏟 Configuration	Note: not all co	ombinations are valid. When the	flight controller f	rmware detects this the serial port configura
🖾 Power & Battery	Note: Do NOT	disable MSP on the first serial po	rt unless you kno	w what you are doing. You may have to rena
ដំរូ PID Tuning	Identifier	Configuration/MSP	Serial Rx	Telemetry Output
💩 Receiver	USB VCP	115200 🛊		Disabled \$ AUTO \$
🖀 Modes	UART1	115200 \$		Disabled \$ AUTO \$
🛔 Motors	UART3	115200 \$		Disabled \$ AUTO \$
🚥 OSD	UART6	115200 \$		Disabled \$ AUTO \$
📲 Blackbox				
🖻 CLI				

- 2. Open the Configuration tabs and open the Receiver Model for SBUS mode.
 - 2.1. The Serial Receiver Provider selects the type that matches its Receiver, such as the

Frsky option SBUS, saved.

🗲 Setup		
🖌 Ports	Receiver	
Configuration	Serial-based receiver (SPEKS)	AT, SB 🗘 Receiver Mode
🖾 Power & Battery		
ដំ PID Tuning	Note: Remember to configure Provider when using RX_SERIA	a Serial Port (via Ports tab) and choose a Serial Receiver _ feature.
📩 Receiver	✓ SPEKTRUM1024	Serial Receiver Provider
Modes	SPEKTRUM2048 SBUS	
Motors	SUMD SUMH	
🚥 OSD	XBUS_MODE_B XBUS_MODE_B_RJ01	y all flight controllers. If you enable a specific
Blackbox	IBUS	'Save and Reboot', it means that this feature is not
🖻 CLI	CRSF Spektrum Bidir SRXL TARGET_CUSTOM SERVO_TILT	In-flight level calibration Servo gimbal
	SOFTSERIAL	Enable CPU based serial ports 📀
	SONAR	Sonar
	TELEMETRY	Telemetry output
	LED_STRIP	Multi-color RGB LED strip support



2.2.In the Configuration tabs, pull down, and there is an Other Features that will be

opened and saved as shown.

🖋 Setup	Other Fea	atures		
🖌 Ports	Note: No feature, a	ot all features are supported and it is disabled after you hi	by all flight controllers. If you enable a specific it 'Save and Reboot', it means that this feature is not	
	supporte	d on your board.		
🖾 Power & Battery		INFLIGHT_ACC_CAL	In-flight level calibration	
ដំរូ PID Tuning		SERVO_TILT	Servo gimbal	
📩 Receiver		SOFTSERIAL	Enable CPU based serial ports)
🖀 Modes		SONAR	Sonar	
A Motors		TELEMETRY	Telemetry output	
∞ OSD		LED_STRIP	Multi-color RGB LED strip support	
		DISPLAY	OLED Screen Display	
Blackbox		CHANNEL_FORWARDING	Forward aux channels to servo outputs	
🖻 CLI	\bigcirc	TRANSPONDER	Race Transponder	
		AIRMODE	Permanently enable Airmode	
		OSD	On Screen Display	
		ESC_SENSOR	Use KISS/BLHeli_32 ESC telemetry as sensor	
		ANTI_GRAVITY	Temporary boost I-Term on high throttle changes	
		DYNAMIC_FILTER	Dynamic gyro notch filtering	

OSD

In the OSD tab, you can choose which values you want to see on screen while you are flying. Enable and disable individual elements using the Elements toggles on the left.

1. You can rearrange the individual OSD elements on screen by dragging them with your

mouse.

	050				
	USD				
Configuration	Note: OSD preview may not show	the actual font that is insta	alled on the flight controller.		
Power & Battery					
PID Tuning	Elements	Switch all:	Preview (drag to change position)	Logo: 🤍	Video Format
	Rssi Value			9900 t 0 0	
	Main Batt Voltage				
	Crosshairs		BETAL	GHT	Units
	Artificial Horizon				IMPERIAL METRIC
SD	Horizon Sidebars				
	C Timer 1		5 + 6 8		Timers
ED Strip	C Timer 2		Carl Carl	7. 00 88	1 Source: ON TIME
	Flymode		See 1	A CALLER	Precision: SECOND \$
	Craft Name			Carl and a	Alarm: 10 🔅
	C Throttle Position			and the second s	2 Source: TOTAL ARMED TIME \$
	Vtx Channel			A A A A A A A A A A A A A A A A A A A	Precision: SECOND \$
	Current Draw		A CONTRACT OF MANY	A designed and	Alarm: 10 🔅
	Mah Drawn				
	Gps Speed				Alarms
	Om Gps Sats				20 CRssi
	Altitude				



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How to use OSD

OSD parameters can be accessed via the Radio into OSD and no longer need a computer. It is very suitable for outdoor flight, which is very convenient.

1. How do I get into the OSD interface?



- 2. How to select and set values?
 - 2.1. You can set the remote control, down, left, right, to adjust the parameters.
 - 2.2.When finished, save the exit.



Betaflight OSD 3.0.1 Overview / With Sirin FPV

https://www.youtube.com/watch?v=Na4P8KFtrC0





ESC firmware update and setup.

By default, you don't have to work with an electrical setting. But if you need to set parameters, refer to the following.

Install BLHeli Configurator

- 1. Open Chrome.
- 2. Open in the url bar: <u>https://chrome.google.com/webstore/detail/blheli-configurator/</u> <u>mejfjggmbnocnfibbibmoogocnjbcjnk</u>
- 3. Install the BLHeli Configurator plug-in.
- 4. Enter the URL chrome://apps/ in Chrome's address bar.
- 5. Click the icon for the BLHeli Configurator



blheli-configurator

6. BLHeli Configurator would be opened

DITEL		/dev/ttv.usbmodem141411	*
CONFIGURATOR		115000	
		115200	Connect
2018-01-12 @ 14:33:41 Running - OS: MacOS, Chrome: 63.0.3239.132, C	Configurator: 1.1.0		
Welcome to BLHeli - Confi	gurator, a utility designed to simplify updating and	d configuring of your ESCs.	
Disclaimer	Contributing	ren hetter vou can help	Open Source / Donation Notice
BLAbs and BLHeli_S. BLHeli FC passthrough is the only interface currently supported.	in many ways, including:		This utility is fully open source and is available free of charge to all
Should you run into any problems, make sure to use the Save Debug	Contributing code, new features, fixes, improvement		If you found the BLHeli
Log button and submit a new issue via GitHub.	Cubmitting issues with datailed description		Configurator useful, please consider supporting its
Application source code can be downloaded from here			development by donating.
Latest CP210x Drivers can be downloaded from here Latest STM USB VCP Drivers can be downloaded from here			Donate
Part utilization D: 0% U: 0% Parket error 0			
Port dunzation, D: 0% 0: 0% Packet error: 0			1.1.





Uses BLHeli Configurator

- 1. OpenBLHeli Configurator
- 2. Provide power to Stable F4 MiniTower.
- 3. Select the correct port and click Connect as shown below.

/dev/tty.usbmodem141411	\$	- / <u>-</u>
115200		
115200	Ţ	
		Conn

4. Click "Read Setup"



5. You'll see the Settings screen.

			Disconnect
2018-01-12 @ 14:37:00 Reading setup			
Note: Make sure you've taken the pro Note: Connect power to the ESCs.	peilers OFF before doing anything on this tab. Programming by TX Startup Power	ESC 1: G-H-30, 16.6 Normal the Motor Direction 1148 µs PPM Min Throttle	
140 C ¢	Temperature Protection Low RPM Power Protection Brake on Stop Demag Compensation	PPM Max Throttle	
Medium \$ 40	Motor Timing Beep Strength Beacon Strength Beacon Delay	ESC 27 C+R-30, TD-6 Normal Notor Direction 1148 µs PPM Min Throttle FLASH FIRMWARE FLASH FIRMWARE	
		ESC 3: G-H-30, 16.6 Normal PPM Min Throttle PPM Max Throttle FLASH FIRMWARE ESC 4: G-H-30, 16.6	
Save Debug Log Port utilization: D: 0% U: 0% Packet er	ror: 0	Defaults Flash All Write Setu	p Read Setup

6. If needed, you can set the CW/ CCW of the esc. Such as motor of 1





🗸 Normal	Motor Direction
Reversed	
Bidirectional	PPM Min Throttle
Bidirectional Reversed	
	PPM Max Throttle
FLASH FIRMWA	RE

- 7. When finished, click Write Setup to save the Settings.
- 8. How to flash BLHeli Configurator firmware?
 - 1. Click FLASH FIRMWARE

ESC 1: G-H-30, 16.6	
Normal	Motor Direction
1148 µs	PPM Min Throttle
1832 µs	PPM Max Throttle
FLASH FIRMWAI	RE
L	

2. Select the firmware model: G-H-30, and click FLASH to start to flash the firmware, as

shown below:

Select Target			
G-H-30	♦ ESC		
16.7 [Official]	♦ Version		
Flash			
Select File Manually			
Cancel			





Saving Your Configuration

Once you have finished building, configuring, and tuning your multirotor, it's a good idea to back up your configuration so that you can restore it later. This is useful if you lose your quad, or if you damage your flight controller, or if you accidentally lock yourself out of your flight controller and must reset it to get back in.

Before we show you the right way to save and restore your configuration, let us warn you about the wrong way. Betaflight and Cleanflight have a "save configuration" and "restore configuration" button. Without going into too much detail, they have some significant drawbacks that mean we don't recommend that you use them.

The correct way to save your configuration is as follows:

- 1. Connect your F4 board to your PC by plugging in USB.
- 2. Start the Betaflight GUI app.
- 3. Go to the CLI tab.
- 4. In the text box at the bottom of the CLI, type "diff" and hit enter. This will cause the flight controller to display all configuration options that you have changed from the default values.
- 5. Scroll back to the top of the window to find the line where you typed "diff".
- 6. Click your mouse and drag/scroll down to select all of the text below where you typed "diff". This is your configuration data.
- 7. Right-click and choose "Copy" to copy the highlighted text to the clipboard.
- 8. Open any text editor, such as Windows Notepad or MacOS TextEdit.
- 9. Right-click in the text editor window and choose "Paste" to paste the highlighted text into the editor.
- 10.Save the document somewhere you won't lose it.

To restore your configuration, do this:

- 1. Open the text file in your text editor.
- 2. Highlight the entire contents of the file.
- 3. Right-click in the text editor window and choose "Copy".
- 4. Connect your F4 board to your PC by plugging in USB.
- 5. Start the Betaflight GUI app.
- 6. Go to the CLI tab.
- 7. Click the mouse once in the text box at the bottom of the CLI tab to place the cursor there.
- 8. Instead of typing any commands, right-click in the text box and choose "Paste".
- 9. Press the Enter key on your keyboard. The pasted-in text will rapidly scroll past.

10.Type "save" in the text box at the bottom of the screen.

11. Press Enter. The flight controller will reboot and the configuration will be restored.



STABLE



How To Save and Restore Your Configuration

https://www.youtube.com/watch?v=HsxTqp76Brs

Contact us

Site :http://www.geprc.com

Email: info@geprc. com

Facebook page: https://www.facebook.com/geprc/

Facebook Group: https://www.facebook.com/groups/566794893526546/

Instagram: https://www.instagram.com/geprc/

