



User Manual for Scorpion Backup Guard II V 1.0

Thank you for choosing Scorpion Backup Guard II, please read the user manual carefully before you use

Safety Notice

Scorpion and their re-sellers are not responsible for your use of this product, or any damage or injuries you may cause or sustain as a result of it's usage

Charge only on fireproof surface

Do not exceed 3C charge rate

Always monitor charging from start to finish

Never short-circuit, nor expose to fire or water

Keep away from children and pets, this is not a toy

Limited Warranty

This limited warranty shall last for twelve (12) months on electronic components from the date of original purchase. This limited warranty applies only to manufacturing defects and does not apply to any improper installation, unauthorized repair, alteration or modification of this product.

Included in the Bag

1 x Scorpion Backup Guard II (Power Board)

Scorpion Backup Guard II Features

Used as a backup unit for control system (Receiver, Gyro, Servo ... etc.)

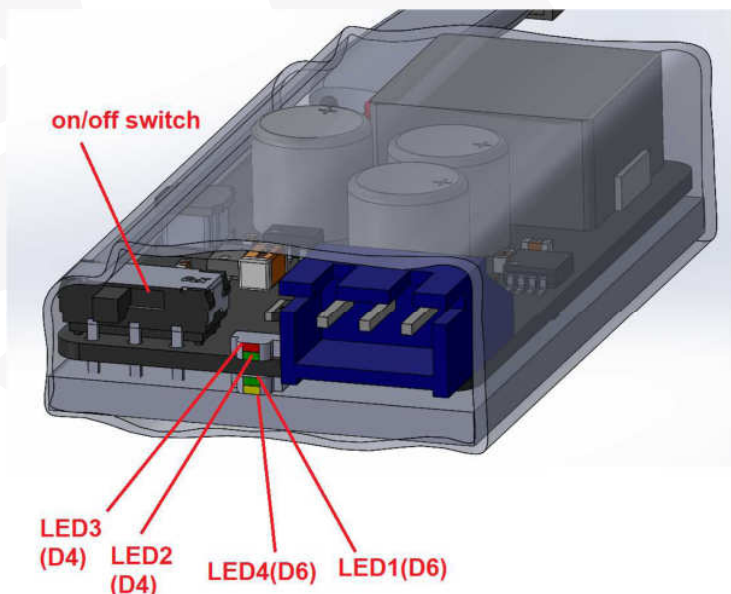
Light weight: 10 grams (without battery)

Dimension: 44 mm x 25.2 mm x 10.5 mm

Li-Po requirement: 2S/7.4V/ (500mAh - 1000mAh)

Output: DC 5V/10Amp Continues Current

Charging Plug: JST-XHR



Indication of lights - Li-Po Charge Status

LED1 – (bottom green) Signal of full battery charge. This LED lights up when charging process is finished. In that time Switch has to be ON and power has to be from BEC.

LED2 – (top green) Power from BEC. This LED lights up when power will be only from BEC. In that time Switch has to be ON.

LED3 – (red) Power from battery. This LED lights up when power will be only from battery. Switch has to be ON.

LED4 – (yellow) Charging of battery from BEC. This LED lights up when the charging process is happening. In that time Switch has to be ON and power has to be from BEC.

Connecting your Scorpion Backup Guard

Simply connect the DC 5V Output to any empty socket on the receiver. If all the sockets are being used, use a Y-harness wire to connect to any servo output socket.

***** (But do not plug into the S-Bus channel port. This will drain the Backup Guard II battery without charging.) *****

Using your Scorpion Backup Guard II

Before use, you can charge up the 2S Li-Po battery or let the Backup Guard Power Board charge up by the main battery when operating, the charge rate will be 0.5A
Turn on backup guard after you power up your BEC system
(see connecting your Scorpion Backup Guard)

Power off Scorpion Backup Guard first then you can power off the BEC system or ESC after flight

Always turn Backup Guard on last, and turn OFF to identify whether your BEC system is functioning properly.

How Scorpion Backup Guard II works

Make sure BEC output voltage on the helicopter or plane has an output of more than 5.5V, otherwise it will drain the Scorpion Backup Guard II in flight. BEC failure occur, the Scorpion 5V output will take over and continue to power the radio system.

Maintenance for your Scorpion Backup Guard

Because of the DC 5V is a one-way output, whenever the main power unit output voltage is higher than DC 5.5V, the Scorpion Backup Guard will not be drained by the power consumption of the radio system.

For maintenance, it only needs to make regular check on the balance of the internal 2S Li-Po battery. If you will not use the backup guard for a long period of time, please keep the battery level at 50% charged and remember to charge up to 8.4v before you use it.

