

UBEC DUO 4A/5~12V & 4A/5V

SKU: U4A2P

This device is a high-efficiency, switch-mode buck regulator with two output channels, works with 7~26Vdc Input. One output channel is capable of supplying 0~4A/5V for your RX or Flight Controller. This device also features another output channel with 4A & 5~12V(adjustable), inbuilt power switch that is operated by a spare Aux Channel, this feature can be used to power and switch on/off a wide variety of electric equipments, such as Multi-rotors Gimbals, Video Transmitters, FPV camera systems, HV Servos, navigation/landing lights, bomb drop, etc.

Features

- Switch-mode buck regulator
- Two output channels,
- Build-in Aux control (On/Off) function
- Low input voltage alarm & threshold setting
- Output Short-circuit protection

Specifications

- Input voltage range: 7~26V (2~6S LiPo battery)
- Out-1: 5V, 6V, 7.2V, 12V (Adjustable), 0~4A, Max.6A, inbuilt Aux control switch.
- Out-2: 5V, 0~4A, Max.6A
- Efficiency: up to 95%
- Standby current: 10mA
- LiPo voltage alarm setting: 3.4V, 3.5V, 3.6V, 3.7V/Cell & OFF
- Input cable 20cm (Silicone 20AWG), Output cable 30cm (2pairs,Silicone 22AWG)
- Size & weight: 58x36x8mm, 32g

How to Use

! *It is a step-down regulator, the input should be 4cells LiPo at least, to ensure stable output 12V.*

⚠ *Pay attention to the input polarity. Reversed polarity will damage the UBEC.*

1. Adjust the Out-1 voltage

- **Pls disconnect any attached equipments on OUT-1 before setting the voltage**
- Hold the KEY 3 seconds to enter the setting of the Out-1 voltage.
- Then press KEY to choose the voltage between 5V, 6V, 7.2V, 12V (Blue LED) .
- The value will be saved & exit if no action within 5 seconds.

2. Aux control function

- **No Aux connection, OUT-1 Default is ON**
- Connect the Aux pins to a spare Aux channel on the receiver (Two position switch) .
- Move the toggle switch to one side or another side.
- Out-1 ON, with blue LED light ON & "BeBe...BeBe"
- Out-1 OFF, with blue LED light OFF & "BeBeBeBe"

3. Input voltage monitor, Low voltage alarm & Alarm values setting

The UBEC can monitor 2~6S LiPo voltage status & notify you once the cells reach the defined voltage.

- 3.1 If the Input voltage is in the range of following, The UBEC will detect the cell numbers automatically when the LiPo is connected.
- | | |
|-------------------------|-------------------------|
| 7.4~8.6V: 2cells LiPo | 11.1~12.9V: 3cells LiPo |
| 14.8~17.2V: 4cells LiPo | 18.5~21.5V: 5cells LiPo |
| 22.2~25.8V: 6cells LiPo | |

The UBEC will alarm "Be" & the voltage threshold red LED will be shown.

During the using of LiPo, UBEC will detect the voltage always.

- If the input voltage is below "threshold * cells", the alarm will be triggered with "Be..Be..Be..Be..."
- Input voltage rise again, the alarm will be suspended.

- 3.2 If the input voltage is out of the aforesaid range. The UBEC will alarm "Be..Be..Be" & 4 red LEDs light. Pls check if the battery total voltage is below 3.7V*cells

3.3 The alarm threshold can be customized between 3.4V, 3.5V, 3.6V, 3.7V & OFF

- Press the KEY to set the alarm threshold. All Red LEDs go out, This function is OFF.
- The value will be saved & exit if no action within 10 seconds.