

# HUBOSD8-SE

# w/ STOSD8-SE, Current Sensor, Dual BEC, 6S Max.

## SKU: HUBOSD8-SE

It is a multifunctional HUB with PDB, new STOSD8-SE, BEC 5V/1.5A(2A Max.) &10V/1.5A(2A Max.), Current sensor 184A, 3~6S LiPo supports. It is specially made for the mini FPV Quad. Built-in STOSD8-SE can support Plug & Play, no complicated settings needed.

- General
- Input voltage range: 9 27VDC(3~6s LiPo) w/ TVS protection
- PDB: 4x30A (Max.4x46A) Regulated 5V(POSCAP filtered) and 10V(MLCC filtered) outputs
- Current Sensor 184A Built-in STOSD8-SE
- Physical:
  - 2oz copper, 4-layers & 2mm PCB.
  - 1x Battery input, 4x ESC outputs. 2x BEC 5V outputs, 2x BEC 10V outputs.
  - Camera signal & Gnd pads, Video Transmitter Signal & Gnd pads
  - 1x Serial port (RX, TX, G)
  - RSSI input pad & Current sensor output pad
  - Dimensions: 46x36x4mm, Weight: 9g
  - Mounting holes 30.5mm square spacing, Φ3mm

#### PDB (ESC outputs)

- Continuous current: 30A per output
- Peak current (5 seconds/minute): 46A per output

#### **BEC 5V outputs**

- Designed for RC Receivers, Flight controllers, OSD, and Servos. .
- Voltage: 5.0 +/- 0.1VDC
- Continuous current: 1.5 Amps (Max.2A 10s/minute)
- Output Ripple: 23mV (VIn=24V, VOut=5V@1.5A load) . Short-circuit tolerant (2 seconds/minute)

### **BEC 10V outputs**

- Designed for Video TX or FPV camera. .
- Voltage: 10.0 +/- 0.2VDC
- Continuous current: 1.5 Amps (Max.2A 10s/minute)
- Output Ripple: 15mV (VIn=24V, VOut=10V@1.5A load) Short-circuit tolerant (2 seconds/minute)
- 10V can be used to power cameras labeled as 12V
- The 3S LiPo input voltage should be 10.8V plus

#### **Current Sensor**

- 184A Max
- Current signal output: 3.3V ADC for Flight controler
- Tips: If current signal pad is connected to FC, The CURRENT METER must be ON in FC GUI.
- Scale the output voltage to milliamps(1/10th mV/A): 179

#### STOSD8-SE

**Running indicator** 

1.5A 138.9A

- Blue LED blinks: STOSD is initializing Blue LED light: STOSD is working.
- Autodetect PAL/NTSC
- Auto sense PAL / NTSC cam at OSD startup. Default is NTSC without Cam signal

56.9A

#### **Dynamic on screen info**

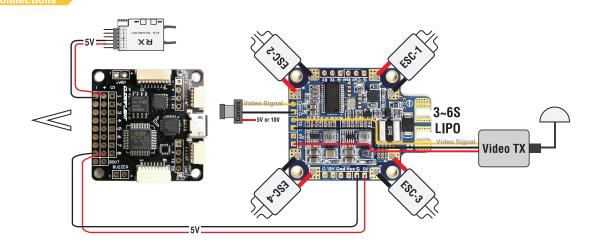
٠	Min.Volt & Max.Amp recorder				
	Current < 2A & keep 5 seconds		Current > 2A	Current > 2A	
	MatekSYS		MatekSYS		
	16 28V 14 56V	280	14 60V	1050	

01:20

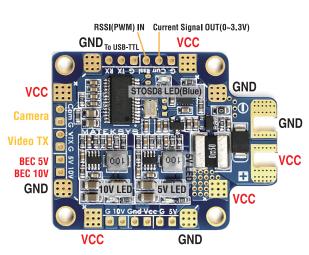
Current > 2A, Time in. Current < 2A, Time out. Auto battery cells detection

Automatic flight timer

- Low vlotage alarm (Value blinks): Default 3.6V\* cells Exceeding mAh alarm (Value blinks): Default 1000mAh
- **Onscreen Pilot ID** Default is disable. you can type some words & enable it in GUI
- Voltage precision: +/- 0.4%, Voltage resolution: 0.01V Current precision: +/- 1.5%, Current resolution: 0.1A
- Firmware upgradable (new STOSD8-se firmware) More info about the STOSD8-SE & How to use the STOSD8 Tool. Pls visit w



02:35



Serial port(RX TX G), Use for Setting & Firmware upgrading only. VCC = Battery Voltage

No nets on the mounting holes



6S LiPo, it is better to put the Low ESR capacitor on the input pads