

HUBOSD eco H-Type W/STOSD8, CURRENT SENSOR & DUAL BEC

SKU: HUBOSD8-H

The HUBOSD8 has been engineered to provide the highest possible performance and reliability in a 46*36mm & 4 layers PCB. It is a multifunctional HUB with PDB, BEC 5V/2A &12V/500mA, Current sensor 140A, STOSD8. It is specially made for the mini FPV Quad. The BEC 12V is linear regulator, no LC Filter needed. Built-in STOSD8 can support Plug & Play, no complicated settings needed.

Functions

General

- Input voltage range (3S-5S operation): 8 21VDC PDB: 4x30A (Max.4x35A) .
- Regulated 5V and 12V outputs .
- Current Sensor 140A Built-in STOSD8
- Physical:
 - 2oz copper, 4-layers &1.6mm PCB.
 - 1x Battery input, 4x ESC outputs. 2x BEC 5V outputs, 2x BEC 12V outputs. - Camera signal & Gnd pads, Video Transmitter Signal & Gnd pads

 - 1x Serial port (RX, TX, G)
 Dimensions: 46x36x4mm, Weight: 8.5g
 - Mounting holes 30.5mm square spacing, Φ3mm

PDB (ESC outputs)

- Continuous current: 30A per output
- Peak current (10 seconds/minute): 35A per output

BEC 5V outputs

- Designed for RC Receivers, Flight controllers, OSD, and Servos.
- DC/DC synchronous buck regulator.
- Voltage: 5.0 +/- 0.1VDC
- Continuous current: 2 Amps (Max.2.5A 10s/minute)
- Output Ripple: 40mV (VIn=16V, VOut=5V@2A load) Short-circuit tolerant (5 seconds/minute) .

BEC 12V outputs

- Linear regulator, very low noise. LC Filter is needless. Designed for Video TX or FPV camera. Voltage: 12.0 +/- 0.3VDC (4~5S operation)

- Continuous current: 500mA@16V IN, 400mA@20V IN
- Short-circuit tolerant (2 seconds/minute)
- If the battery is 3S LiPo, Output voltage=3S LiPo voltage 1V .

Current Sensor

- 140A
- If current >140A. STOSD display 140A •

STOSD8

- **Running indicator** 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

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	Current < 2A & ke	ep 5 seconds	Current > 2A	
	MatekSYS		MatekSYS	
	16.28V 14.56V	280	14.60V	1050
	1.5A 138.9A	01:20	56.9A	02:35

- Min.Volt & Max.Amp recorder
- Automatic flight timer
- Current > 2A, Time in. Current < 2A, Time out.



Attention !!!

Video Signal & Video GND should be connected here in pairs If Camera has one GND only. Pls solder it here, and solder one power cable to BEC only.



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

5V LED 12V LED STOSD8 LED(Blue)



Auto battery cells detection If the Input voltage is in the range of following, The HUBOSD will detect the cell numbers automatically

11.1~13.05V: 3cells LiPo, 14.8~17.4V: 4cells LiPo, 18.5~21V: 5cells LiPo If the input voltage is out of the range. The voltage value will blink on screen. Pls check if the battery total voltage is below 3.7V*cells

- 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
- Firmware upgradable
- Voltage precision: +/- 0.4%, Voltage resolution: 0.01V Current precision: +/- 1.5%, Current resolution: 0.1A
- More info & How to use the STOSD8 Tool. Pls visit www.stosd.com