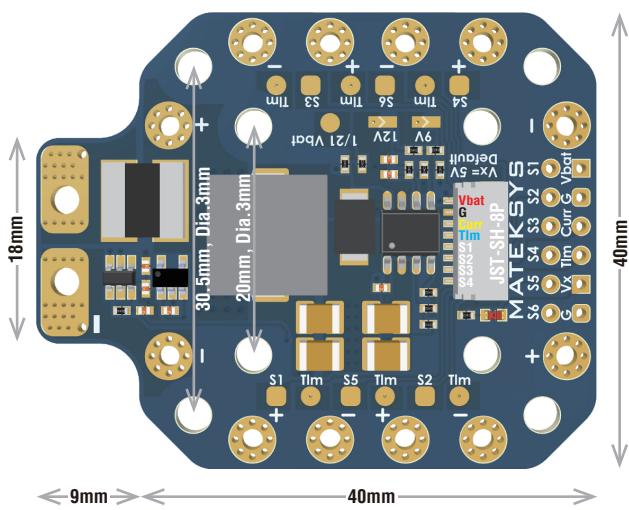


# MATEKSYS PDB-HEX

## QUICK START GUIDE

### LAYOUT



+ & - : LiPO & ESC power pads  
6~60V (2~12S)

PDB/Current Sense resistor: 140A continuous, 264A burst.

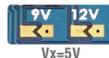
Vbat: Battery voltage

G: Ground

Curr: current sensor signal, 264A range

Tlm: Duplicates Tlm pads for BLhel32 ESC telemetry,  
Tlm pads are all shorted together

Vx: Regulator output



Vx= 5V by default, 5A cont.

Vx= 9V, 4A cont. 5A burst



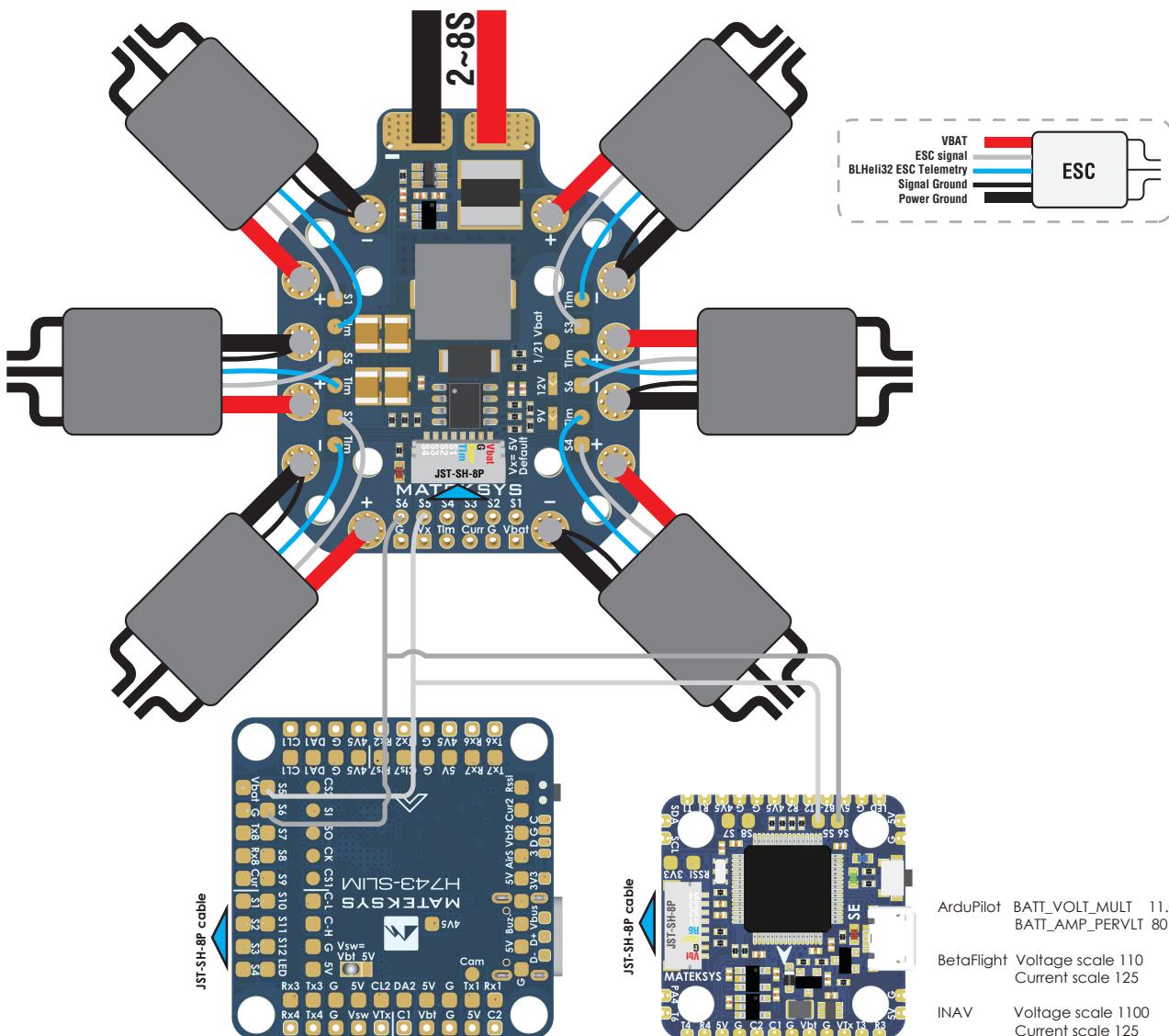
Vx= 12V, 4A cont. 5A burst



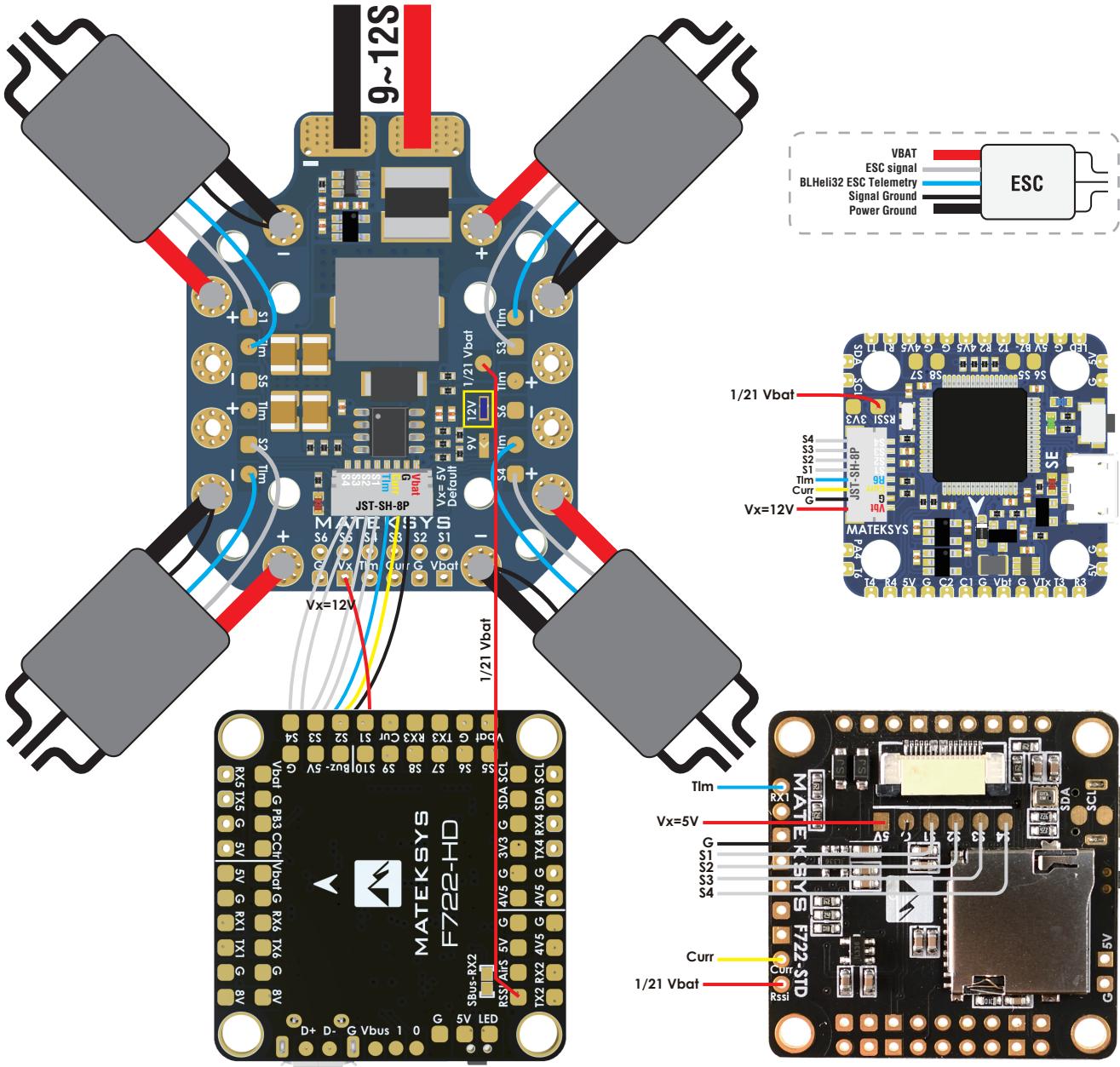
S1/S2/S3/S4/S5/S6: ESC signal

1/21 Vbat: 1K:20K voltage divider  
can be connected directly to MCU ADC pin

### WIRING (2~8S)



## WIRING (9~12S)



BetaFlight

CLI `resource` to locate RSSI pin name

RSSI pin is `C00`

then

```
resource ADC_RSSI 1 none
resource ADC_BATT 1 C00
set vbat_scale = 210
set ibata_scale = 125
save
```

```
resource SPI_MOSI 2 C03
resource CAMERA_CONTROL 1 B15
resource ADC_BATT 1 C02
resource ADC_RSSI 1 C00
resource ADC_CURR 1 C01
resource ADC_EXT 1 A04
resource PINIO 1 A15
resource PINIO 2 B03
```

INAV

CLI `get adc` to locate rssi\_adc\_channel  
rssi\_adc\_channel is `3` by default  
then

```
set rssi_adc_channel = 0
set vbat_adc_channel = 3
set vbat_scale = 2100
set current_meter_scale = 125
save
```

```
# get adc
vbat_adc_channel = 1
Allowed range: 0 - 4
rssi_adc_channel = 3
Allowed range: 0 - 4
current_adc_channel = 2
Allowed range: 0 - 4
airspeed_adc_channel = 4
Allowed range: 0 - 4
```

## WIRING (9~12S)

