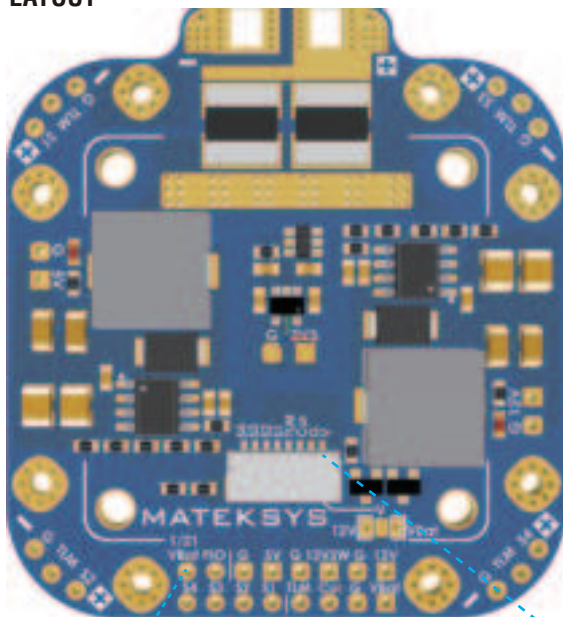


MATEKSYS PDB FCHUB-12S V2

QUICK START GUIDE

LAYOUT



+ & - : LiPO & ESC power pads
8~60V (3~12S)

PDB: 4x70A cont. 4x110A burst.
5V: BEC 5V, 5A cont. 6A burst
12V: BEC 12V, 4A cont. 5A burst
3V3: LD03.3V 500mA cont.
G: Ground

VBat = Input voltage

Curr: current sensor signal, 440A range (0~3.3V)
INAV / BetaFlight current scale 75
ArduPilot BATT_AMP_PERVLT 133.3

TLM: for BLheli32 ESC telemetry,
5x TLM pads are all shorted together

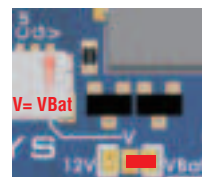
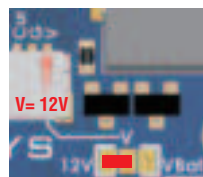
S1/S2/S3/S4: ESC signal

1/21 VBat

1K:20K voltage divider
Output = 0~2.857V when VBat = 0~ 60V

INAV voltage scale: 2100
Betaflight voltage scale: 210
ArduPilot BATT_VOLT_MULT 21.0

“V” pad on JST-SH connector

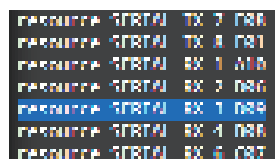


12VSW & PIO

No output on “12VSW” pad by default if PINIO is not enabled

Any unused RX/TX/motor/PWM pad can be used for PINIO
e.g. connect PIO pad to “Rx3” of MATEK H743-SLIM

CLI [resource](#) to locate RX3 pin name
RX3 pad is D09
then
[resource SERIAL_RX 3 none](#)
[resource PINIO 1 D09](#)
[set pinio_box = 42](#)
[save](#)

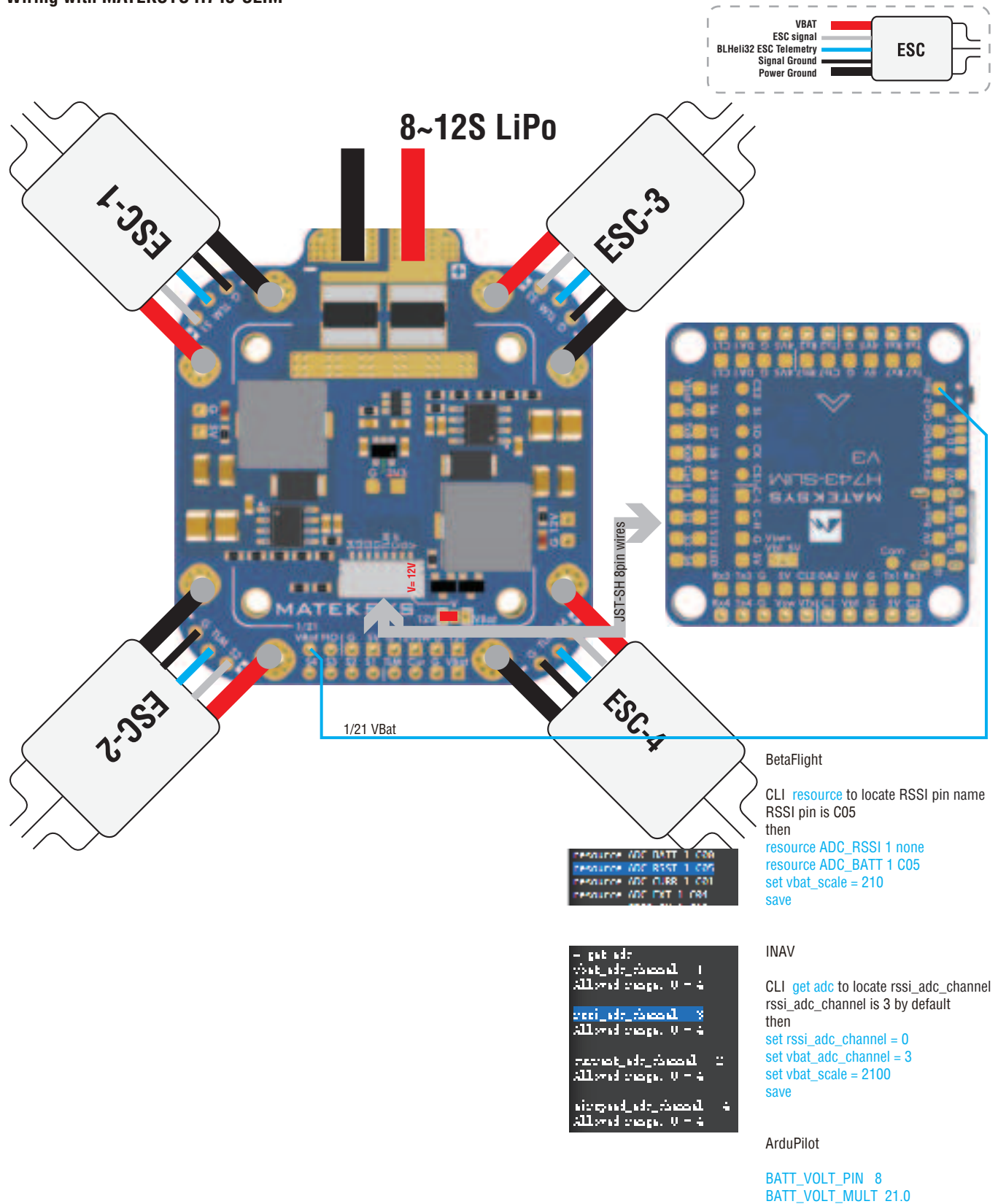


pinio_box 40 user1, 41 user2, 42 user3, 43 user4

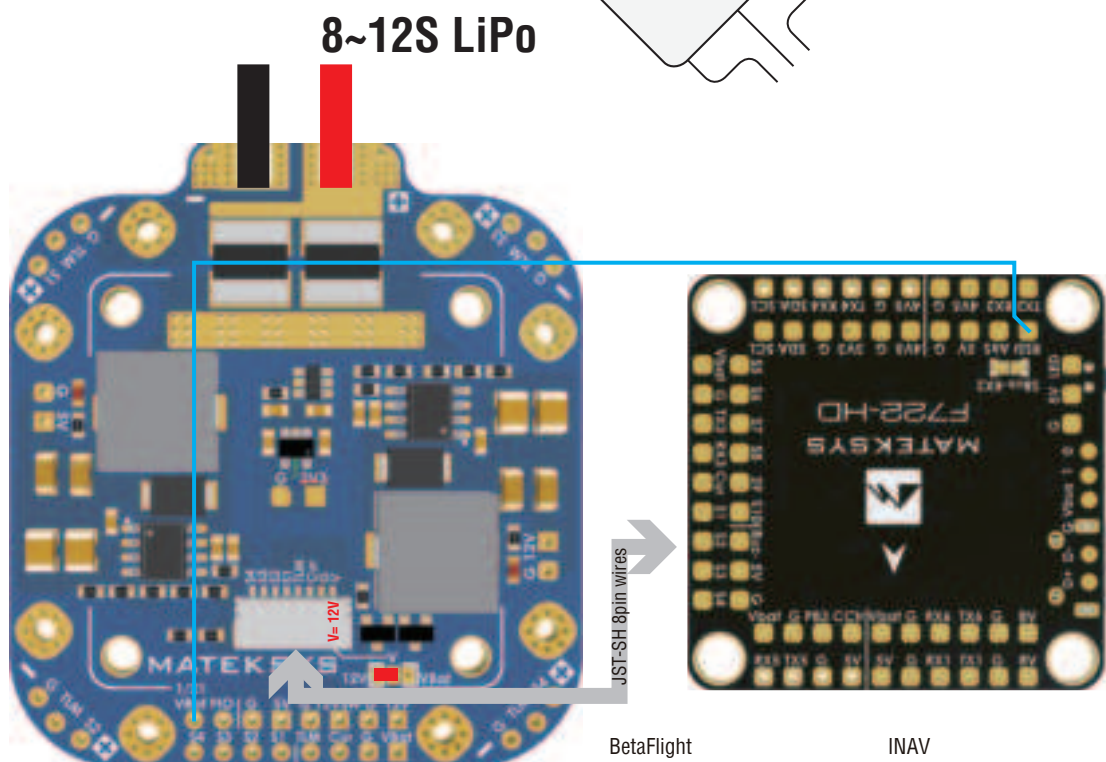
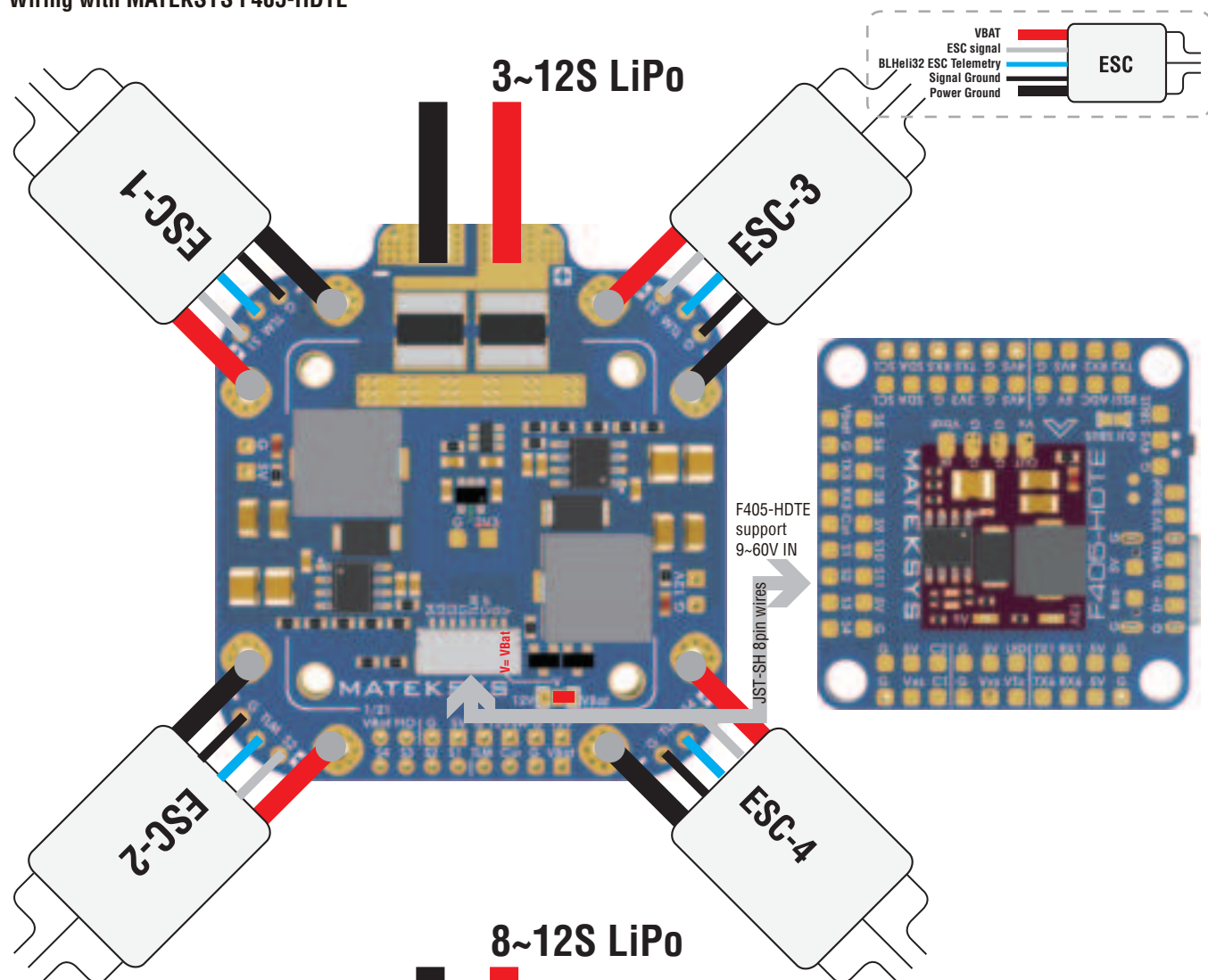
Go to modes tab and assign an AUX channel to the USER3 mode. Click SAVE.
Flip the switch and test



Wiring with MATEKSYS H743-SLIM



Wiring with MATEKSYS F405-HDTE



resource ADC_RSSI 1 none
resource ADC_BATT 1 C00
set vbat_scale = 210
save

set rssi_adc_channel = 0
set vbat_adc_channel = 3
set vbat_scale = 2100
save