View Single Post   Thread: Discussion F5J Template for Ethos

Sep 14, 2022   ⚠️   #28

🔘 fnnwizard   🔍 ✉️

Finally got around to detailing the telemetry available for use with BLHeli32 (BLH32)ESCs and how to set it up.

Not all BLH32 escs have all telemtry features. I'm using the Tekko32 F3 65A metal ESC.

First step is the make sure we have firmware that is capable which is 32.8 or later.

We need to set the S.port number to anything really. I use 10 since that is the default for ESCs. Pick a number and stick with it, because if u change it, you have to reconfigure the widgets for every new port assigned.

Auto telemetry on or off doesn't really matter. On means transmission is once every 32ms. Off defaults to once every 50ms.

Once we write the settings to the esc, hook everything up, the telemetry wire from esc goes to the S in the s.port. (that's a molex picoblade connector)

Power up tx and rx, go into tx in telemetry settings (2nd page of airplane icon) and discover new sensors.
We should see the 5 items being broadcast.

Esc voltage
Esc current
A blank w/ zero, that's rpm. Need to name and configure it
Esc temp
Esc consumption

Next go to add a couple screens. Configure the widgets to show values on one screen, and some charts on another.

I found setting current, rpm, temp to "max" readings more helpful to validate setups.

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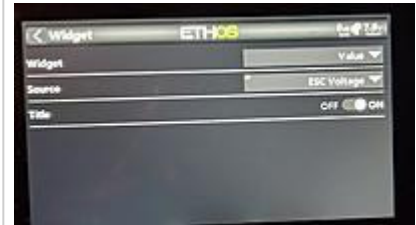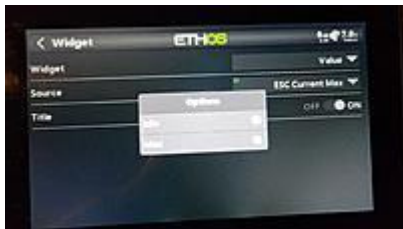

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F5J V TEMPLATE
CRUISE
ETHOS
0 dB 2.4G   7.6V TxBatt

ESC Voltage	ESC Current Max	RPM Max
15.54V	2.22A	127

ESC Temp Max	ESC Consumption	RxBatt
35°C	0mAh	7.76V

03:30:00AM

F5J V TEMPLATE
CRUISE
ETHOS
0 dB
2.4G
7.8v
TxBatt

ESC Voltage

15.56V
15.55V
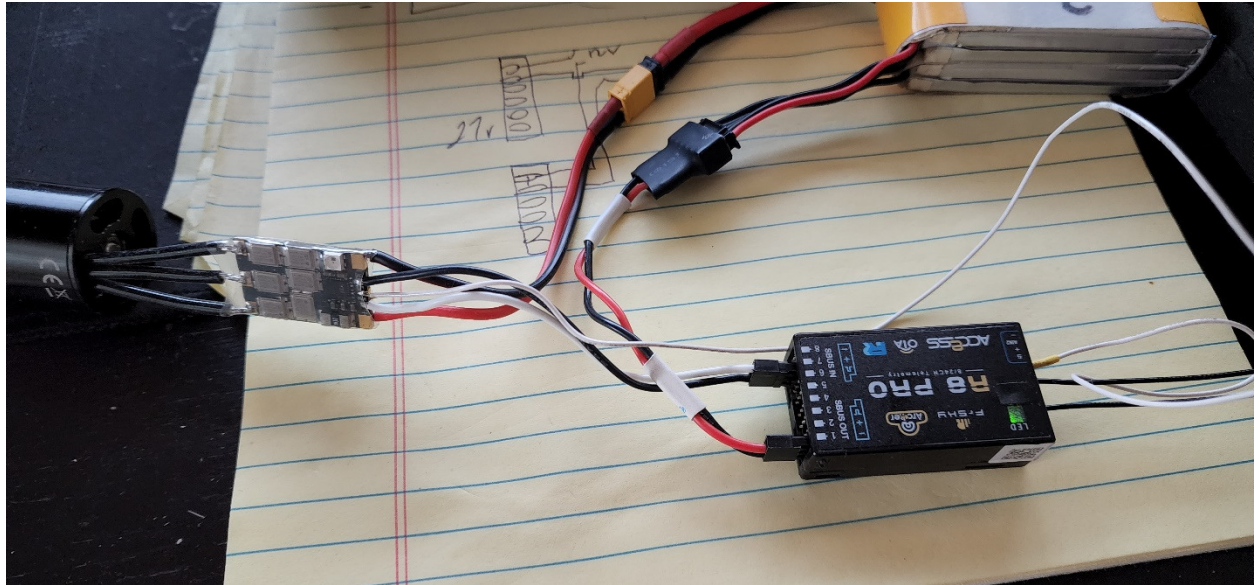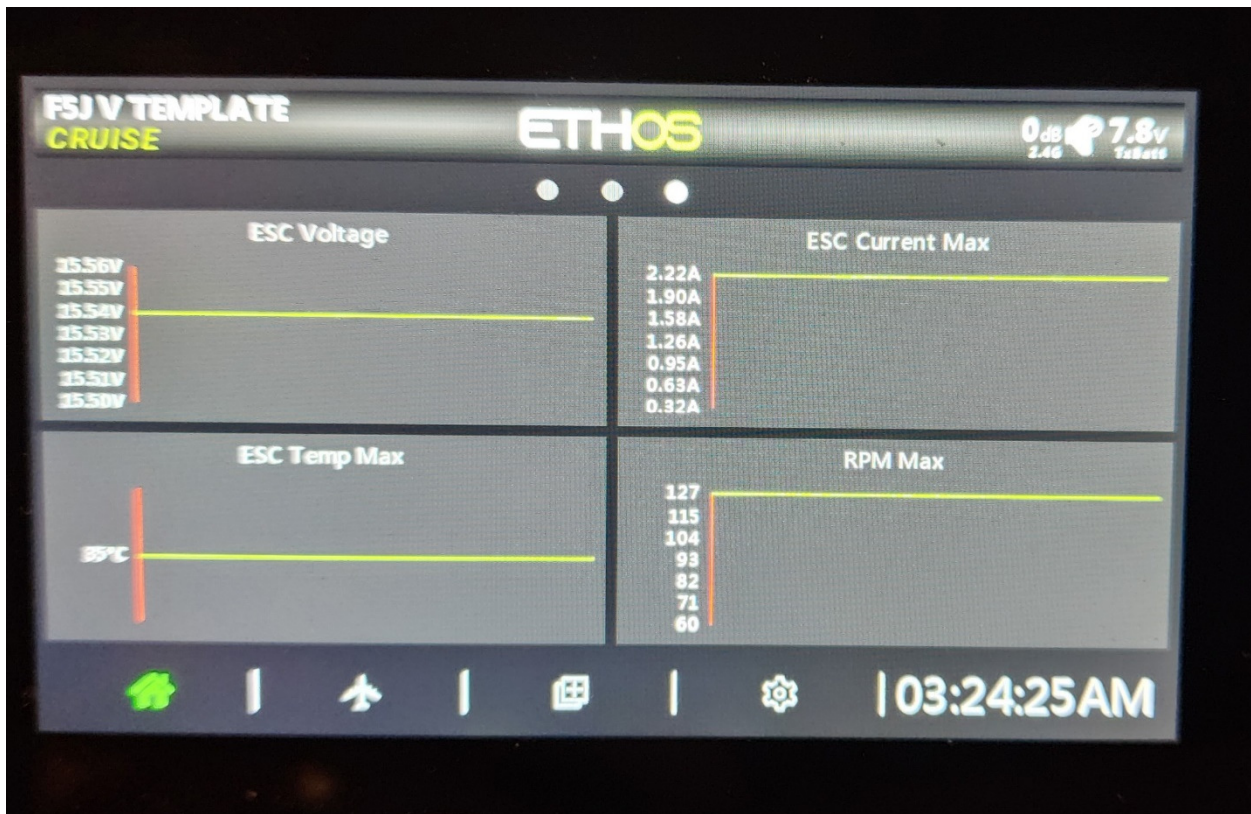15.54V
15.53V
15.52V
15.51V
15.50V

ESC Current Max

2.22A
1.90A
1.58A
1.26A
0.95A
0.63A
0.32A

ESC Temp Max

85°C

RPM Max

127
115
104
93
82
71
60

03:24:25AM
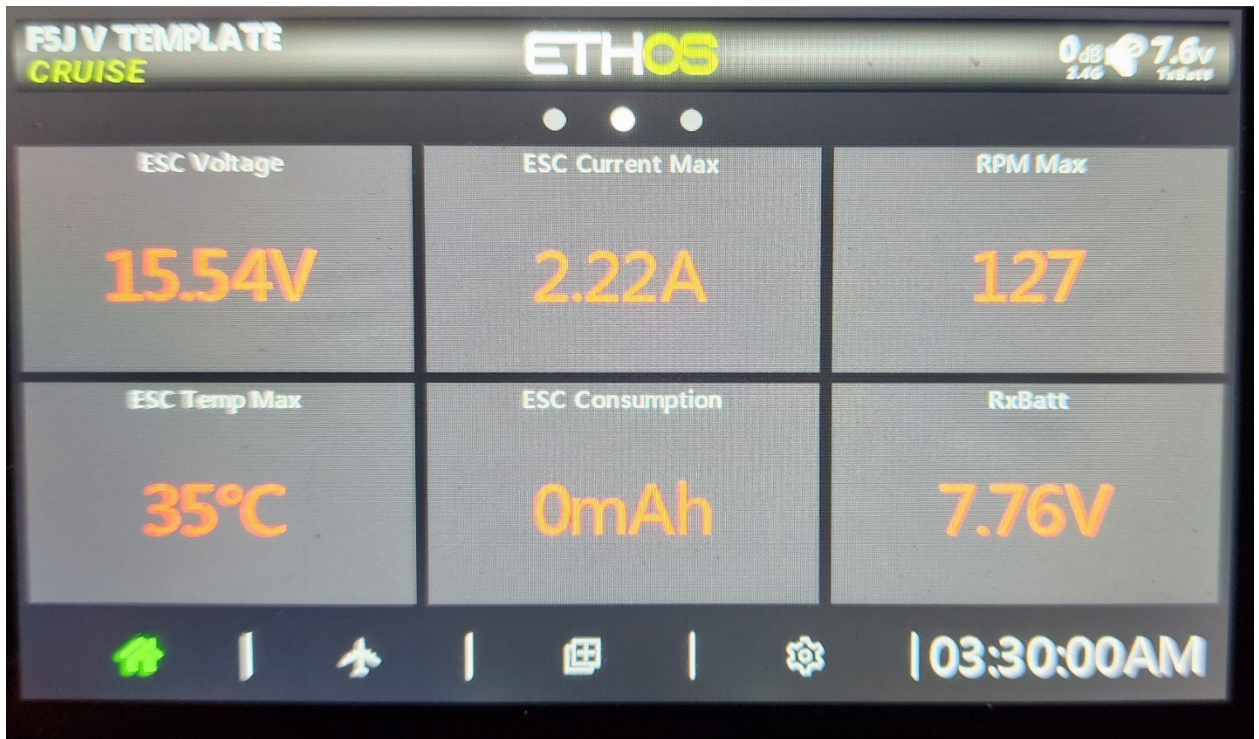
< Configure Screens
ETHOS
0 dB
2.4G
7.8v
TxBatt

| Screen1 | Screen2 | Screen3 | + |

Value
Voltage ▼   Configure ...

Value
ent Max ▼   Configure ...

Value
RPM ▼   Configure ...

Value
SC Temp ▼   Configure ...

Value
umption ▼   Configure ...

Value
RxBatt ▼   Configure ...

03:27:27AM

| Screen1 | Screen2 | Screen3 | + |

Line Chart

Configure Widget

Line Chart

Configure Widget

Line Chart

Configure Widget

Line Chart

Configure Widget

03:27:32AM

Widget — Value ▼

Source — ESC Voltage ▼

Title — OFF ⬤ ON

Widget	Value ▼
Source	ESC Current Max ▼
Title	OFF ⬤ ON

Options

Min	☐
Max	☐

Widget	Line Chart ▼
Source	ESC Voltage ▼
Log Period	100ms
Inverted	OFF ⬤ ON
Auto Range	OFF ⬤ ON
Min	0.00V
Max	50.00V