

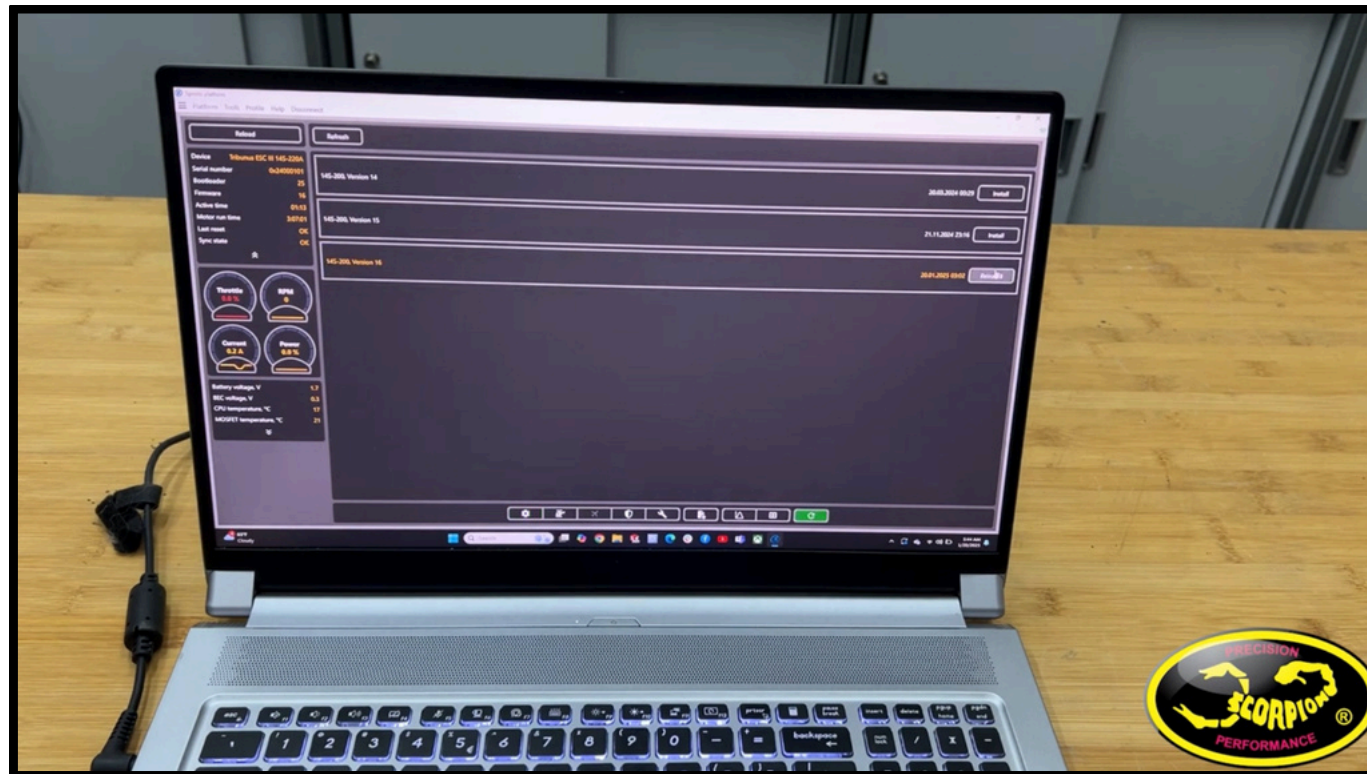


**Scorpion Power System**  
[www.scorpionsystem.com](http://www.scorpionsystem.com)

## **Scorpion Tribunus III Telemetry + FR.SKY S.Port Protocol : User Guide**

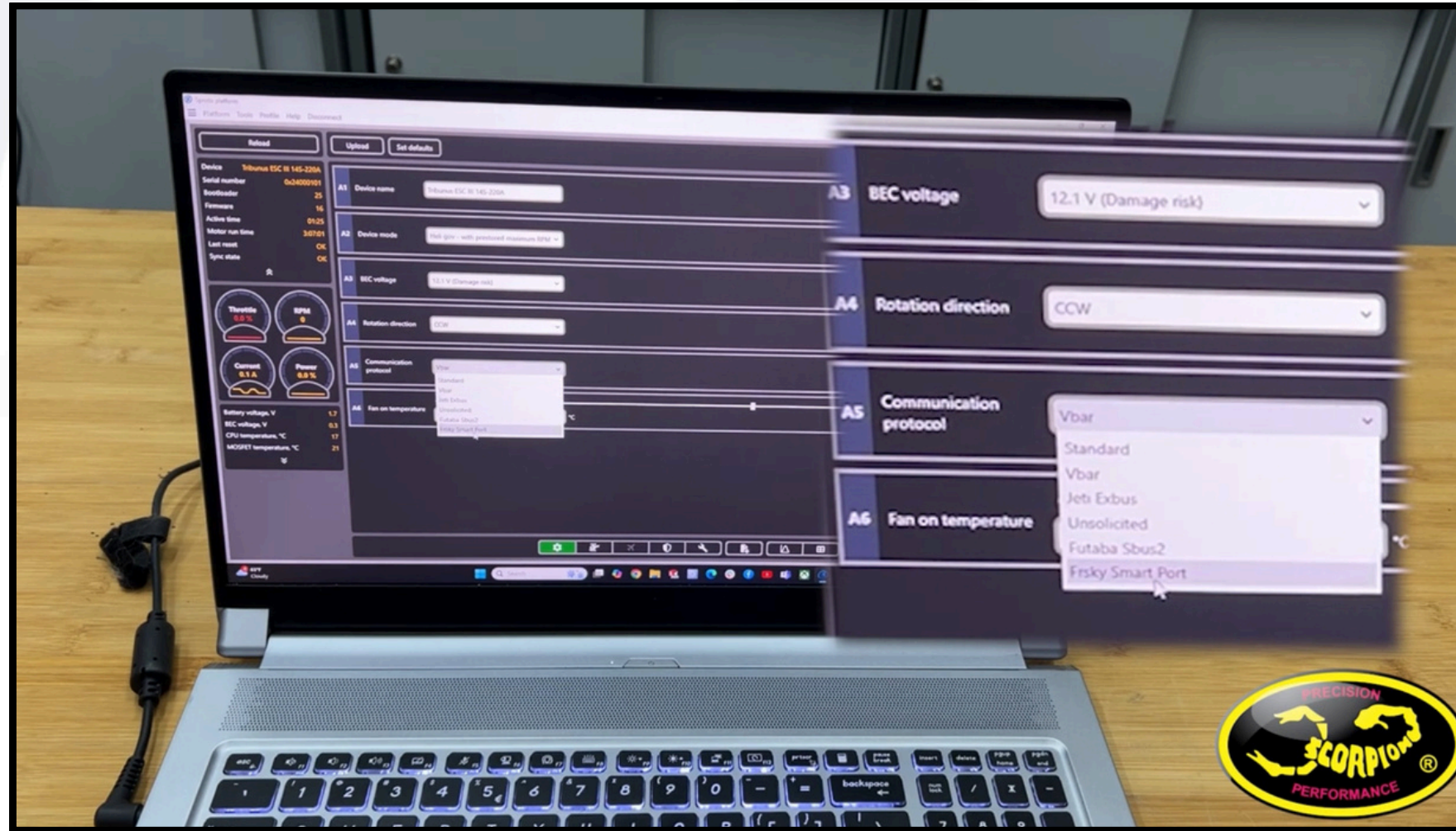
### **I. Software**

- 1. Connect Tribunus III ESC to your PC using USB-C Cable (or Vlink II cable + diode cable).**
- 2. Make sure you are using FW 16 or higher**



**NOTE: FR.SKY S.Port protocol is functional with Scorpion Tribunus III ESCs ONLY**

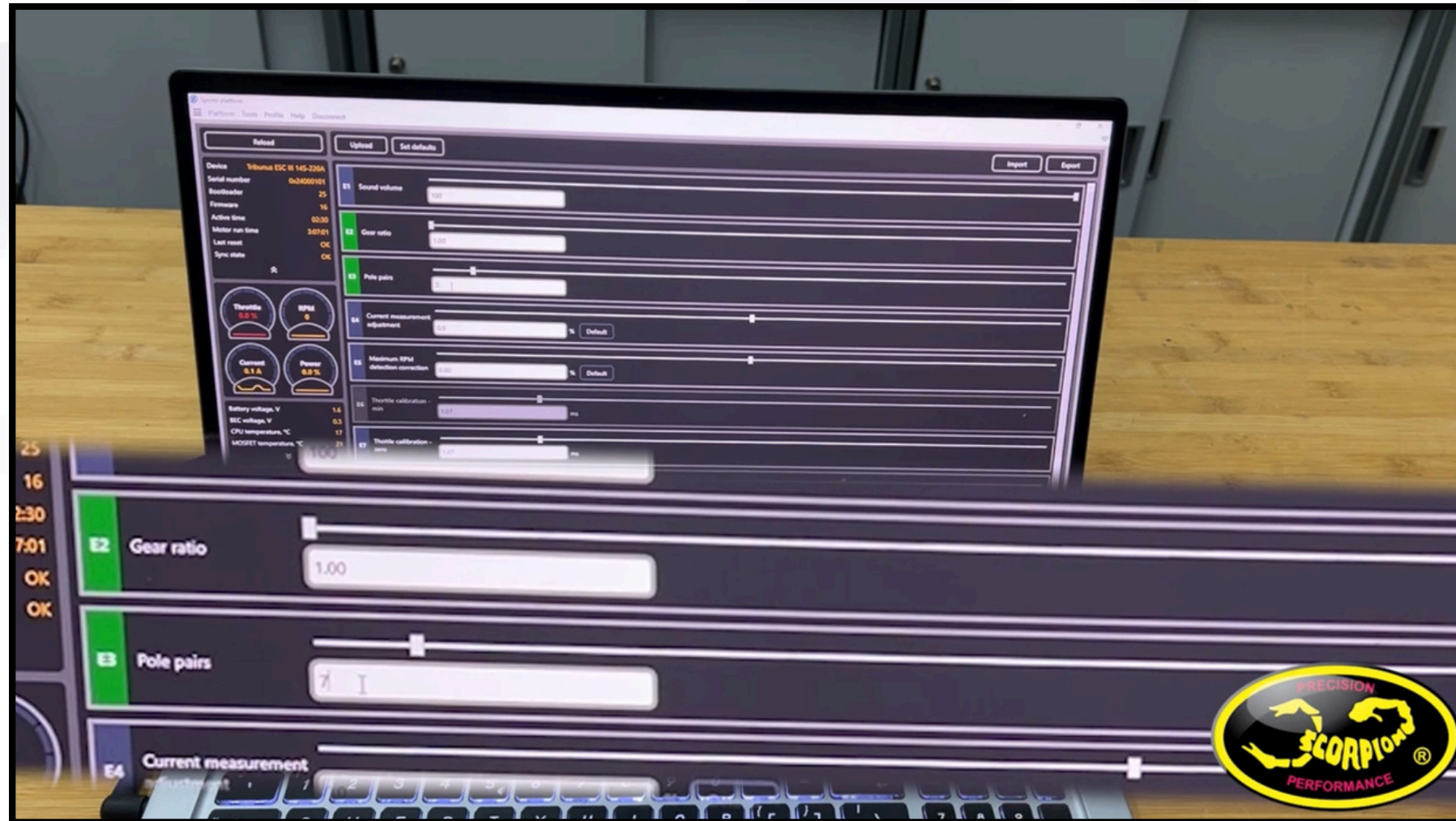
**3. Select FR.SKY Smart Port in value A5 - Communication Protocol**



**Make sure your FR.SKY remote, is as well updated to the latest FW to ensure proper function !**



#### 4. Set the correct pole pair (E3) and gear ratio (E2)



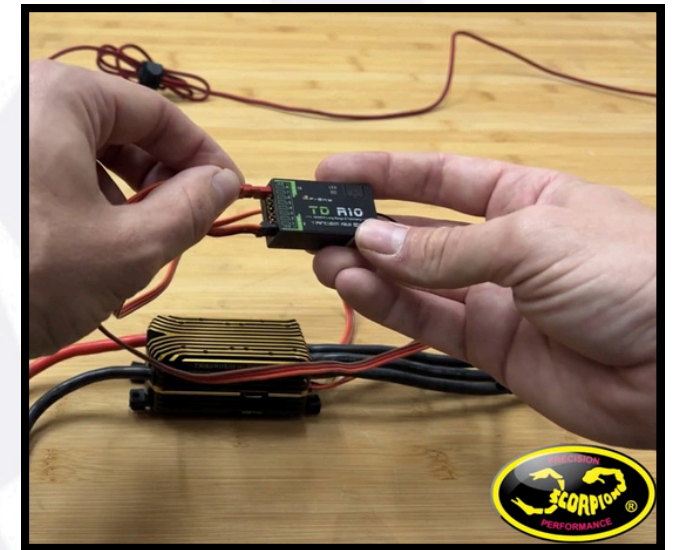
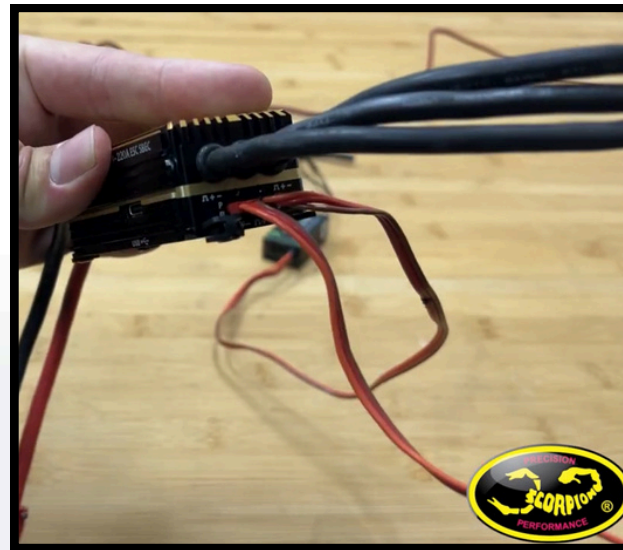
**Note: Pole pair is 1/2 of the pole count of the motor (pole count / 2 = pole pairs)**

**Note : If you do not set pole pair and gear ratio the electrical RPM will be displayed in the telemetry field rather than mechanical RPM**

## II. Hardware connection

### 5. Connect your Tribunus-III ESC to your FrSky RX

- Connection is made with a simple male to male servo extension cable (patch cable)
- Use your Empty port with S.PORT function (ALL) on your FRSKY receiver to connect to ESC PC.PORT.









### III. Transmitter setup

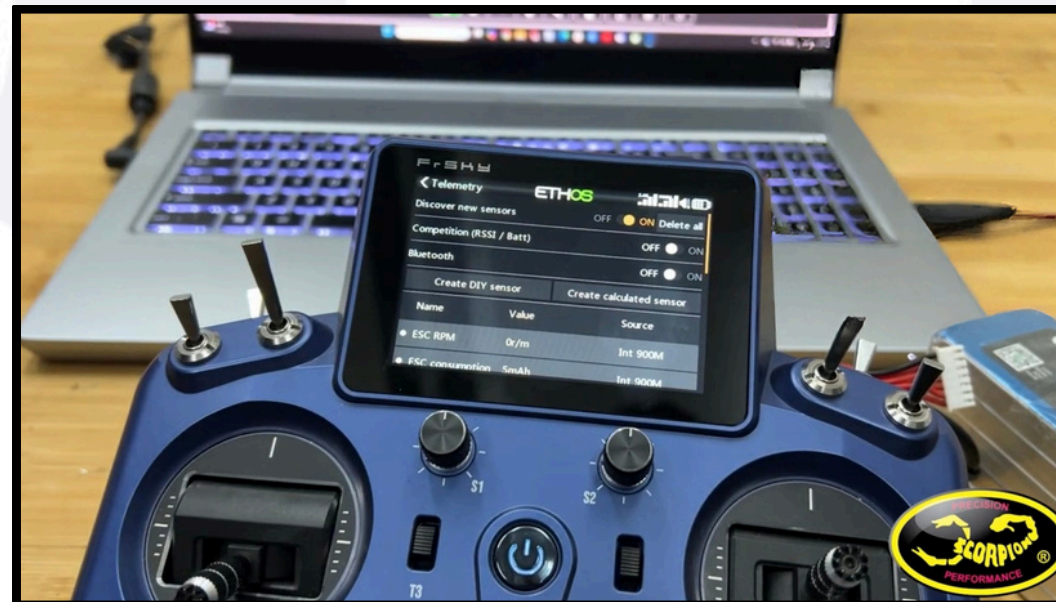
1- Model setup --> RF System-->Scroll down to choose your receiver (In our case TDR10) --> Option assign the pin for the telemetry (in our case pin 8) to S.PORT-->



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## 2-Telemetry--> discover new sensors ON -->check the telemetry info



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## 3-Configure screen [⊕]--> choose the format screen --> change--> widget (Value)--> source --> category (Telemetry)--> member(ESC...)





### III.Result

- Set the widgets with your desired values according to your preference
- Values sent by the ESC are : Voltage / Temp / RPM / Current / Consumption

