

ProHub Telemetry Setup and Update Guide

This guide covers the setup and firmware update process for the ProHub (version 1.8), which supports telemetry for Jeti, FrSky, HoTT, PowerBox, and Futaba systems.

Note for Jeti users: An update is not required unless the module is being used in helicopters, turboprops, or multi-engine planes.

Firmware Update Procedure

Follow these steps to update the firmware on the ProHub:

1. Unzip all files to a temporary directory.
2. Connect the ProHub to your computer using a standard USB-C cable (like those used in modern smartphones). Ensure the cable supports data transfer—not all USB-C cables do.
3. Launch the HubPro1.0.exe program. It will scan for USB devices and detect the ProHub. The current firmware version will be displayed.
4. Click the Update button and select the HubPro1_8.bin (or newer) file from the directory you unzipped earlier.
5. Wait for the update to complete. Do not disconnect the ProHub until you hear the USB reconnection sound from your computer.
6. Close the program.
7. Optional: Launch the program again to verify the installed version.

Tip: Always use a high-quality USB-C cable that supports data transfer.

Initial Telemetry Setup

- Connect **only** the data terminal and the receiver throttle lead (not powered) to the ProHub.
- Using a small rod or unfolded paperclip, press the pushbutton on the ProHub (located at the center of the 4 rotating LED lights). In some units, this button may need to be pierced through the label.
- Power on the receiver. The data terminal will display the currently selected telemetry mode (default is Jeti).
- Use the “+” button to switch between FrSky, Futaba, HoTT, PowerBox, or Jeti.
- Once the telemetry mode is selected, use the “>” button to navigate options and save settings. Confirm to store the new settings; otherwise, changes will be lost.

Telemetry System Setup

Jeti Telemetry

- Connect the **EXT telemetry input** on the receiver to one telemetry connector on the ProHub. The second connector must remain unused. Jeti sensors require an expander and cannot be connected in parallel.
 - Power on the ECU and the transmitter. The **Telemetry LED** on the ProHub should light **green**, indicating successful data transmission.
 - On the transmitter, scan for telemetry sensors. The radio will auto-register all available sensors.
-

Futaba Telemetry

❑ **Note:** Futaba telemetry is less flexible. The only supported sensor is **Jetcat V10**, originally for Jetcat engines.

- **Limitations:** Not all Xicoy engine data is available, and labels/units may not match exactly.

Parameter Overview:

Parameter	Displayed As
RPM	Correct
Exhaust Temp	Correct
Pump Voltage	Interpreted as RPM (e.g., 10.12V = 1012 RPM)
Thrust	Throttle percentage
Fuel Remaining (ml)	Interpreted as percentage (100ml = 100%)
Fuel Flow (ml)	Correct
Altitude (m)	Correct
Fuel Quality	Replaced by receiver signal quality
Battery Voltage	Correct
Battery Amperage	Correct
Airspeed / Status	Not used
Second Shaft RPM	Correct (for turboprops/helicopters)

Installation:

- Connect a servo patch cable from a ProHub telemetry port to the **SBUS2** port on the receiver.
- In the **Futaba transmitter**:
 - Ensure the receiver is linked; check that the receiver voltage appears on the main screen.
 - Under **Linkage → Sensors**, ensure 14 consecutive free slots.
 - Assign the **Jetcat V10 sensor** to the first free slot (usually Slot 8).

ProHub Setup:

- Enter telemetry setup and select **Futaba**.
- Choose the slot number used (default is 8).
- Save settings and power cycle the receiver.

When properly configured, the **Telemetry LED** will light **green**. If no SBUS2 data is received, the LED will be **red**.

FrSky Telemetry

- Connect a servo patch cable from a ProHub telemetry port to the **S.Port** on the receiver.

Telemetry Modes:

- **Basic**: Uses standard FrSky sensor addresses.
- **Extended/Maximum**: Custom telemetry addresses with more data. Higher data volume may reduce refresh rate.

Measure	Basic	Extended	Maximum
Exhaust Temp (°C)	0x400	0x4400	0x4400
Turbine RPM	0x500	0x4401	0x4401
Throttle %	0xA20	0x4402	0x4402
Battery Voltage (0.1V)	0x900	0x4403	0x4403
Pump RPM	0x910	0x4404	0x4404
Fuel Remaining (%)	0xA10	0x4405	0x4405
Status	0x410	0x4406	0x4406
Heli/TP RPM	0xA30	0x4414	0x4414
Ambient Temp (°C)	—	0x4407	0x4407
Pressure (mBar)	—	0x4408	0x4408

Measure	Basic	Extended	Maximum
Altitude (m)	—	0x4409	0x4409
Fuel Flow (ml/min)	—	0x440A	0x440A
Serial Number	—	—	0x440B
Battery Used (mAh)	—	—	0x440C
Engine Time (s)	—	—	0x440D
Pump Amperage (0.1A)	—	—	0x440E

ProHub Setup:

- Enter telemetry setup and select **FrSky**.
- Choose the desired mode (Basic, Extended, Maximum).
- Save settings and power cycle the receiver.

Final Check:

- If connected correctly, the **Telemetry LED** will light **green**.
- On your transmitter, go to the telemetry page and **discover sensors**.

HoTT Telemetry

- Connect a servo patch cable to the **telemetry port** on your HoTT receiver telemetry port.

Modes:

- **Legacy Mode:** Emulates General Air Module.
- **Modern Mode:** Use Turbine 1–4 sensors on newer radios.

ProHub Setup:

- Select **HoTT**, then choose either **General Air Module** or **Turbine 1–4** depending on your radio.
- Save settings and power cycle the receiver.

When successful, the **Telemetry LED** will light **green**. The transmitter will auto-detect and display the telemetry data.

PowerBox Telemetry

- Connect a patch cable to the **P²Bus** port on your receiver.

ProHub Setup:

- Select **PowerBox**, then choose **Turbine 1–4** depending on the installation.
- Save settings and power cycle the receiver.

The **Telemetry LED** will light **green** if communication is established.

The transmitter will automatically recognize the data, you must set the widgets in the screens as you like.