# satlog

# satlog.io - Getting Started Guide

## Modem Unit

### Placement

The Modem Unit should be outside with the logo facing up with a clear view of the sky. It should see as much of the horizon as possible. The Modem Unit can sit outside without further protection from the elements but impacts should be avoided where relevant.



### Connections

**Green**: The interconnection cable is a 4-pin RJ11 terminated cable that can easily be disconnected or connected carrying both power and data. The cable does not follow any standards for wire color and RJ11 pinout so care should be taken if the cable is cut and terminated again. Contact satlog.io for guidance (support@satlog.io).
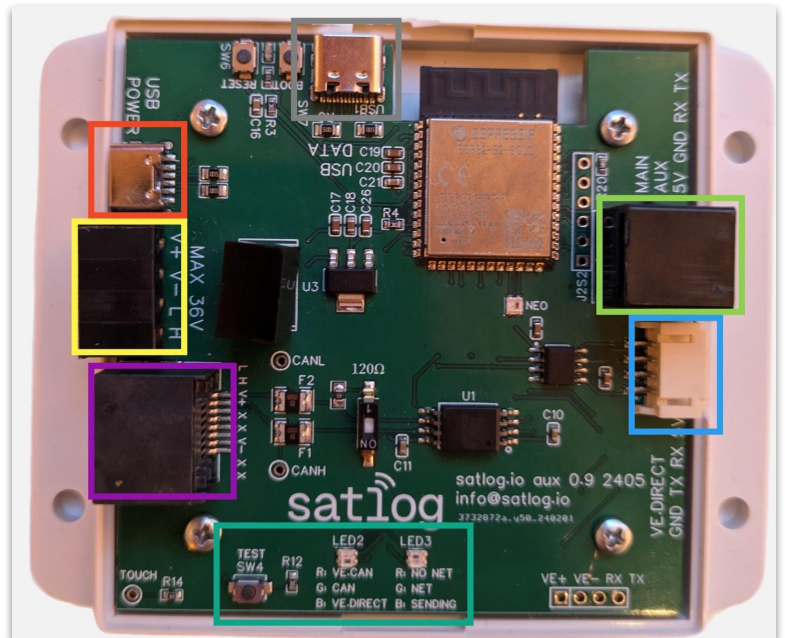
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## Data Logger

### Placement

The Data Logger should be placed dry and not too humid or warm. Orientation doesn't matter, but covering the WiFi antenna (next to grey rectangle) with metal will further reduce the range. WiFi is only used for local troubleshooting.

### Connections

The Data Logger powers the Modem using the interconnect cable. Connect **one** Power source (USB, 12-36V DC, CAN, VE.Can) and any number of Data sources.



- ⬤ USB Power & Data: Software updates & Troubleshooting
- ⬤ USB Power: Permanent USB connection for 5V power supply.
- ⬤ 36V Power and Generic CAN Bus Data: Connect to a vessel's NMEA2k/SeaTalkNG network.
- ⬤ VE.Can: Connect to a powered VE.Can network for Data & Power, or connect additional power for an unpowered VE.Can network. Toggle switch for 120Ω resistor.
- ⬤ Test button and Indicator Lights: LED2 will flash when data is read from the CAN (red/green) or VE.Direct network (blue). LED3 will indicate satellite status. Press and hold the TEST button to force a send/upload.
- ⬤ VE.Direct: Connect to Victron equipment (BMV, Inverter) using a Victron VE.Direct cable.
- ⬤ Modem/Data Logger interconnect RJ11 connector/cable: Cable can be cut and re-terminated if needed, see notes under Modem Unit.

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## WiFi & Dashboard

The Data Logger serves a WiFi AP that can be used to troubleshoot or check the status of the satlog.io and its subsystems (Iridium modem, GPS, VE.Direct/CAN bus data).
The WiFi is open (no password) and named satlog xyz (random letters).
The range is very low and it will only work when standing near the Data Logger. Since there is no internet, a phone or laptop might complain about no internet connectivity, please dismiss this and stay connected and visit the page http://192.168.4.1 or http://satlog.local in your browser.