# POWER**⊗**FLEET®
People Powered AIoT

# FT1

## Installation and Servicing Guide

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# 1 Mounting your FT1 device

There are two ways of mounting your FT1 device:

- Connect FT1 device directly to OBDII port of vehicle
- Mount FT1 using an OBDII Cable securely fastening the device with zip ties preferably against the chassis of the vehicle to ensure little to no movement.

> ⚠ **Note:** Always connect Device to OBD port while the ignition of the vehicle is OFF to ensure optimal functionality of the modem.



FT1 Connected directly into diagnostic port



FT1 mounted under dash using OBDII Y cable & tie straps to securely fasten device to chassis of vehicle

## 2   FT1 Harness Y Cables

The FT1 can be installed directly into the OBD port of the vehicle or alternatively can be installed using a OBD Y cable. The TTL Molex connector connects to the side of the FT1. Pin Definition provided below:

> ⚠ **Note:** Always connect Device to OBD port while the ignition of the vehicle is OFF to ensure optimal functionality of the modem.
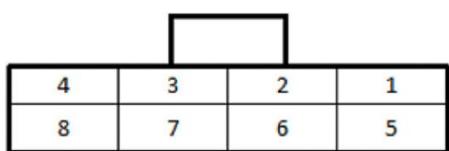


OBD Universal Y cable



OBD to 9 Pin Y

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## 3   FT1 – (8-PIN) Cable Color Table

```
        ┌───────────┐
    ┌───┤           ├───┐
  ┌─┴─┬─┴─┬───┬─────┐   
  │ 4 │ 3 │ 2 │  1  │   
  ├───┼───┼───┼─────┤   
  │ 8 │ 7 │ 6 │  5  │   
  └───┴───┴───┴─────┘   
```

| PIN at board side | PIN defenition | Colour |
|---|---|---|
| 1 | GND | Black |
| 2 | Relay1 (Ground to close) (–) | Orange |
| 3 | BMCU_UART4_RX (TTL 1.8v) | Green |
| 4 | BMCU_UART4_TX (TTL 1.8v) | White |
| 5 | BDCDC 5V output | Pink |
| 6 | 1-Wire_line | Yellow/Red |
| 7 | Input (Ground to close) (–) | Grey |
| 8 | Relay2 | White/Blue |

# 4 Light Patterns & LED Error Codes

| LED | Flash Count | Error | Action |
|---|---|---|---|
| Green | 1 | Sim Error | Check that SIM is inserted correctly, reseat SIM or replace with another SIM. |
| Green | 2 | No Network | Check that SIM card is inserted correctly. Also check that you are in a reasonable coverage area. Check mount location of device and ensure there is no obstruction. |
| Green | 3 | Unable to register with Network | Verify if it's a renewal device or recent device/SIM swap. Confirm SIM inside device and that a rate plan exists. Check with fulfillment to ensure SIM is active. |
| Green | 4 | Service Unreachable | Check for poor coverage location and confirm that the line is active. |
| Green | 5 | Service Activation Error | Please contact Technical Support @ **1-800-220-0779**. |
| Green | 6 | Service Sync failure | Check with fulfillment that the SIM is active with a rate plan. Power cycle unit by unplugging the device and unplugging the internal backup battery. |

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# 5  Light Patterns & LED Error Codes

| LED | Flash Count | Error | Action |
|---|---|---|---|
| Blue | 3 | GPS Signal Weak | Check mount location of device; also check for poor coverage area. |
| Red | 4 | Battery too low   to transmit | Using a voltage meter, check constant power from diagnostic port (this may require professional installer assistance). |
| Red | 5 | Error reading telematics data | Power cycle unit by unplugging device and unplugging internal backup battery. Leverage hardware support if   problem persists. |
| Red | 10 | Other system error | Please contact Technical Support   @ **1-800-220-0779**. |