



# TFT100

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2G tracker with high-voltage support  
for e-mobility & heavy machinery

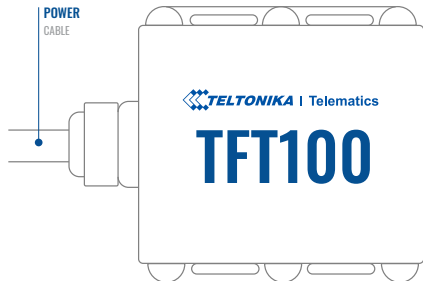
Quick Manual v1.0

# CONTENT

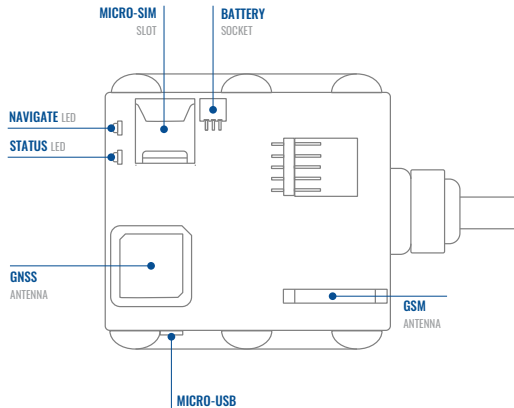
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# KNOW YOUR DEVICE

TOP VIEW

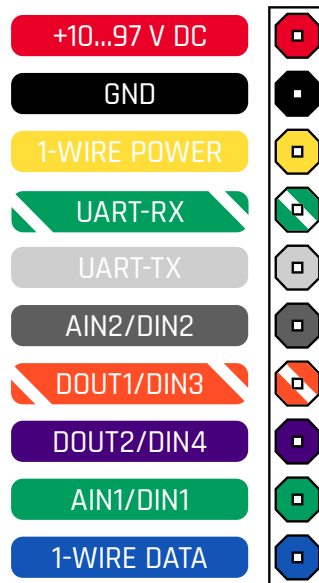


TOP VIEW (WITHOUT COVER)



# UART PINOUT

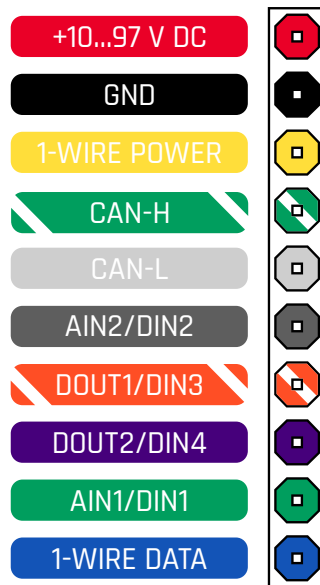
| PIN COLOR        | PIN NAME             | DESCRIPTION                                              |
|------------------|----------------------|----------------------------------------------------------|
| Red              | VCC (10-97) V DC (+) | Power supply (+10...97 V DC).                            |
| Black            | GND (-)              | Ground.                                                  |
| Yellow           | 1WIRE POWER          | Power supply pin for Dallas 1-Wire devices.              |
| White/<br>Green  | UART-RX              | Input for data reception through UART.                   |
| White            | UART-TX              | Output for data transmission through UART.               |
| Grey             | AIN 2 /<br>DIN 2     | Analog input, channel 2 /<br>Digital input, channel 2.   |
| White/<br>Orange | DOUT 1 /<br>DIN 3    | Digital output, channel 1 /<br>Digital input, channel 3. |
| Violet           | DOUT 2 /<br>DIN 4    | Digital output, channel 2 /<br>Digital input, channel 4. |
| Green            | AIN 1 /<br>DIN 1     | Analog input, channel 1 /<br>Digital input, channel 1.   |
| Blue             | 1WIRE DATA           | Data channel for 1-Wire devices.                         |



TFT100 UART PINOUT

# CAN PINOUT

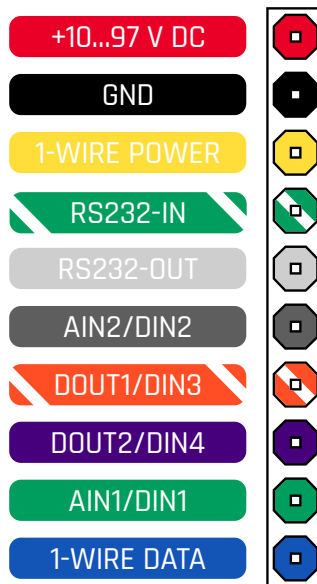
| PIN COLOR        | PIN NAME             | DESCRIPTION                                              |
|------------------|----------------------|----------------------------------------------------------|
| Red              | VCC (10-97) V DC (+) | Power supply (+10...97 V DC).                            |
| Black            | GND (-)              | Ground.                                                  |
| Yellow           | 1WIRE POWER          | Power supply pin for Dallas 1-Wire devices.              |
| White/<br>Green  | CAN-H                | CAN interface High.                                      |
| White            | CAN-L                | CAN interface Low.                                       |
| Grey             | AIN 2 /<br>DIN 2     | Analog input, channel 2 /<br>Digital input, channel 2.   |
| White/<br>Orange | DOUT 1 /<br>DIN 3    | Digital output, channel 1 /<br>Digital input, channel 3. |
| Violet           | DOUT 2 /<br>DIN 4    | Digital output, channel 2 /<br>Digital input, channel 4. |
| Green            | AIN 1 /<br>DIN 1     | Analog input, channel 1 /<br>Digital input, channel 1.   |
| Blue             | 1WIRE DATA           | Data channel for 1-Wire devices.                         |



TFT100 CAN PINOUT

# RS232 PINOUT

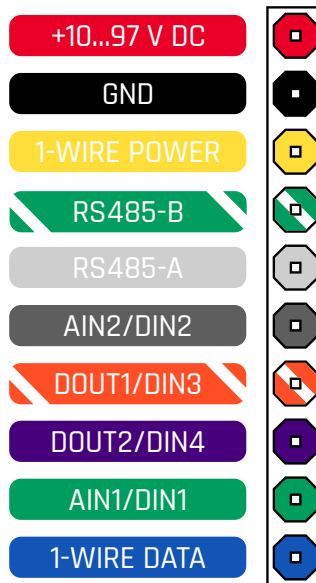
| PIN COLOR        | PIN NAME             | DESCRIPTION                                              |
|------------------|----------------------|----------------------------------------------------------|
| Red              | VCC (10-97) V DC (+) | Power supply (+10...97 V DC).                            |
| Black            | GND (-)              | Ground.                                                  |
| Yellow           | 1WIRE POWER          | Power supply pin for Dallas 1-Wire devices.              |
| White/<br>Green  | RS232-IN             | Input wire for RS232.                                    |
| White            | RS232-OUT            | Output wire for RS232.                                   |
| Grey             | AIN 2 /<br>DIN 2     | Analog input, channel 2 /<br>Digital input, channel 2.   |
| White/<br>Orange | DOUT 1 /<br>DIN 3    | Digital output, channel 1 /<br>Digital input, channel 3. |
| Violet           | DOUT 2 /<br>DIN 4    | Digital output, channel 2 /<br>Digital input, channel 4. |
| Green            | AIN 1 /<br>DIN 1     | Analog input, channel 1 /<br>Digital input, channel 1.   |
| Blue             | 1WIRE DATA           | Data channel for 1-Wire devices.                         |



TFT100 RS232 PINOUT

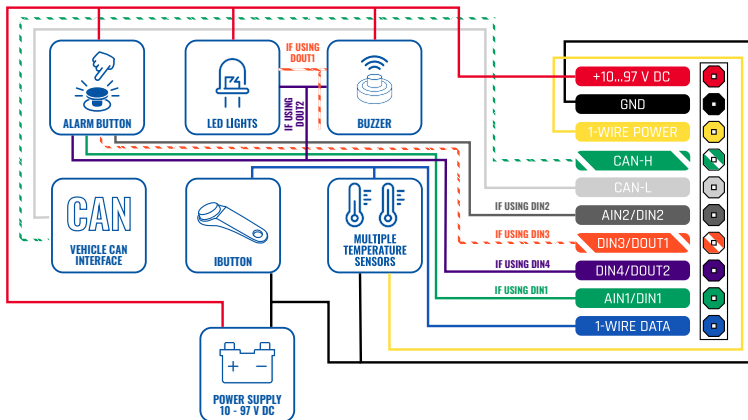
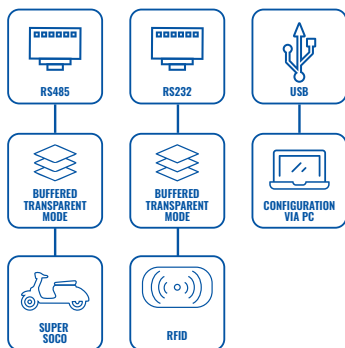
# RS485 PINOUT

| PIN COLOR        | PIN NAME             | DESCRIPTION                                              |
|------------------|----------------------|----------------------------------------------------------|
| Red              | VCC (10-97) V DC (+) | Power supply (+10...97 V DC).                            |
| Black            | GND (-)              | Ground.                                                  |
| Yellow           | 1WIRE POWER          | Power supply pin for Dallas 1-Wire devices.              |
| White/<br>Green  | RS485-B              | Input for data reception through UART.                   |
| White            | RS485-A              | Output for data transmission through UART.               |
| Grey             | AIN 2 /<br>DIN 2     | Analog input, channel 2 /<br>Digital input, channel 2.   |
| White/<br>Orange | DOUT 1 /<br>DIN 3    | Digital output, channel 1 /<br>Digital input, channel 3. |
| Violet           | DOUT 2 /<br>DIN 4    | Digital output, channel 2 /<br>Digital input, channel 4. |
| Green            | AIN 1 /<br>DIN 1     | Analog input, channel 1 /<br>Digital input, channel 1.   |
| Blue             | 1WIRE DATA           | Data channel for 1-Wire devices.                         |



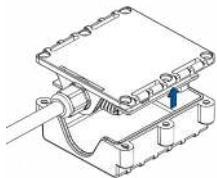
TFT100 RS485 PINOUT

# WIRING SCHEME



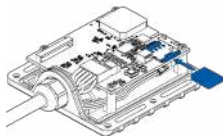
# SET UP YOUR DEVICE

## HOW TO INSERT MICRO-SIM CARD



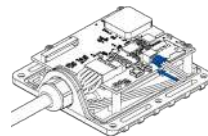
### 1 COVER REMOVAL

Remove the bottom cover.



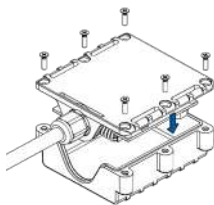
### 2 MICRO-SIM CARD INSERT

Insert **Micro-SIM** card as shown with **PIN request disabled** or read [Security info](#) how to enter it later in **Configurator**. Make sure that Micro-SIM card **cut-off corner** is pointing forward to slot.



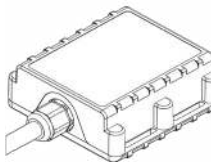
### 3 BATTERY CONNCTION

Connect the **battery** as shown to the device.



### 4 ATTACHING COVER BACK

After configuration, attach device cover and put the screws back in.



### 5 COMPLETELY CLOSED DEVICE

Device is ready to be connected.

# PC CONNECTION (WINDOWS)

1. Power-up TFT100 with **DC voltage 10 - 97V** power supply using **supplied power cable**. LED's should start blinking, see "**LED behaviour description**".
2. Connect device to computer using **Micro-USB cable** or **Bluetooth** connection:
  - Using **Micro-USB cable**
    - You will need to install USB drivers, see "[How to install USB drivers \(Windows\)](#)"
  - Using **Bluetooth**
    - TFT100 Bluetooth is enabled by default. Turn on **Bluetooth** on your PC, then select **Add Bluetooth or other device > Bluetooth**. Choose your device named – "**TFT100\_last\_7\_imei\_digits**", without **LE** in the end. Enter default password **5555**, press **Connect** and then select **Done**.
3. You are now ready to use the device on your computer.

## HOW TO INSTALL USB DRIVERS (WINDOWS)

1. Please download COM port drivers from [here](#)<sup>1</sup>.
2. Extract and run **TeltonikaCOMDriver.exe**.
3. Click **Next** in driver installation window.
4. In the following window click **Install** button.
5. Setup will continue installing the driver and eventually the confirmation window will appear. Click **Finish** to complete the setup.

<sup>1</sup> <https://wiki.teltonika-gps.com/images/d/d0/TeltonikaCOMDriver.zip>

# CONFIGURATION

At first TFT100 device will have default factory settings set. These settings should be changed according to the user's needs. Main configuration can be performed via [Teltonika Configurator](#)<sup>1</sup> software. Get the latest **Configurator** version from [here](#)<sup>2</sup>. Configurator operates on **Microsoft Windows OS** and uses prerequisite **MS .NET Framework**. Make sure you have the correct version installed.

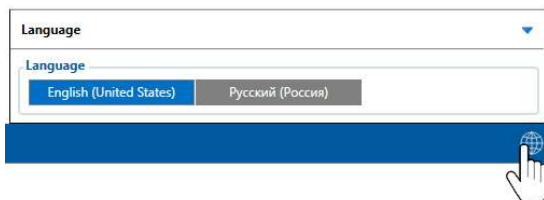
<sup>1</sup> [wiki.teltonika-gps.com/view/Teltonika\\_Configurator](http://wiki.teltonika-gps.com/view/Teltonika_Configurator)

<sup>2</sup> [wiki.teltonika-gps.com/view/Teltonika\\_Configurator\\_versions](http://wiki.teltonika-gps.com/view/Teltonika_Configurator_versions)

## MS .NET REQUIREMENTS

| Operating system | MS .NET Framework version | Version       | Links                                                                 |
|------------------|---------------------------|---------------|-----------------------------------------------------------------------|
| Windows Vista    |                           |               |                                                                       |
| Windows 7        | MS .NET Framework 4.6.2   | 32 and 64 bit | <a href="http://www.microsoft.com">www.microsoft.com</a> <sup>1</sup> |
| Windows 8.1      |                           |               |                                                                       |
| Windows 10       |                           |               |                                                                       |

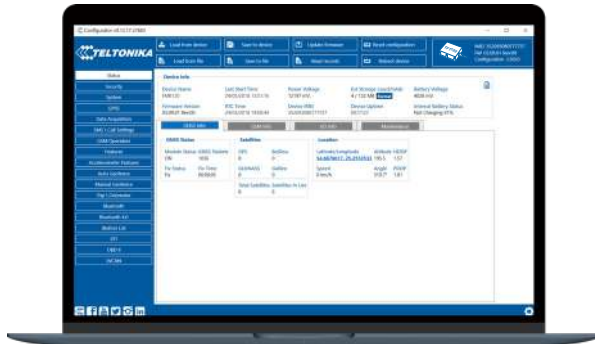
<sup>1</sup> [dotnet.microsoft.com/en-us/download/dotnet-framework/net462](http://dotnet.microsoft.com/en-us/download/dotnet-framework/net462)



Downloaded Configurator will be in compressed archive. Extract it and launch Configurator.exe. After launch software language can be changed by clicking  in the right bottom corner.



Configuration process begins by pressing on connected device.



After connection to Configurator **Status window** will be displayed.

Various **Status window**<sup>1</sup> tabs display information about **GNSS**<sup>2</sup>, **GSM**<sup>3</sup>, **I/O**<sup>4</sup>, **Maintenance**<sup>5</sup> and etc. TFTP100 has one user editable profile, which can be loaded and saved to the device. After any modification of configuration the changes need to be saved to device using **Save to device** button. Main buttons offer following functionality:

-  **Load from device** – loads configuration from device.
-  **Save to device** – saves configuration to device.
-  **Load from file** – loads configuration from file.
-  **Save to file** – saves configuration to file.
-  **Update firmware** – updates firmware on device.
-  **Read records** – reads records from the device.
-  **Reboot device** – restarts device.
-  **Reset configuration** – sets device configuration to default.

Most important configurator section is **GPRS** – where all your server and **GPRS settings**<sup>6</sup> can be configured and **Data Acquisition**<sup>7</sup> – where data acquiring parameters can be configured. More details about TFTP100 configuration using Configurator can be found in our **Wiki**<sup>8</sup>.

<sup>1</sup> [wiki.teltonika-gps.com/view/TFT100\\_Status\\_info](http://wiki.teltonika-gps.com/view/TFT100_Status_info)

<sup>2</sup> [wiki.teltonika-gps.com/view/TFT100\\_Status\\_info#GNSS\\_Info](http://wiki.teltonika-gps.com/view/TFT100_Status_info#GNSS_Info)

<sup>3</sup> [wiki.teltonika-gps.com/view/TFT100\\_Status\\_info#GSM\\_Info](http://wiki.teltonika-gps.com/view/TFT100_Status_info#GSM_Info)

<sup>4</sup> [wiki.teltonika-gps.com/view/TFT100\\_Status\\_info#I2FO\\_Info](http://wiki.teltonika-gps.com/view/TFT100_Status_info#I2FO_Info)

<sup>5</sup> [wiki.teltonika-gps.com/view/TFT100\\_Status\\_info#Maintenance](http://wiki.teltonika-gps.com/view/TFT100_Status_info#Maintenance)

<sup>6</sup> [wiki.teltonika-gps.com/index.php?title=TFT100\\_GPRS\\_settings](http://wiki.teltonika-gps.com/index.php?title=TFT100_GPRS_settings)

<sup>7</sup> [wiki.teltonika-gps.com/index.php?title=TFT100\\_Data\\_acquisition\\_settings](http://wiki.teltonika-gps.com/index.php?title=TFT100_Data_acquisition_settings)

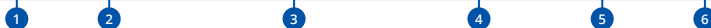
<sup>8</sup> [wiki.teltonika-gps.com/index.php?title=TFT100\\_Configuration](http://wiki.teltonika-gps.com/index.php?title=TFT100_Configuration)

# QUICK SMS CONFIGURATION

Default configuration has optimal parameters present to ensure best performance of track quality and data usage.

Quickly set up your device by sending this SMS command to it:

```
« setparam 2001:APN;2002:APN_username;2003:APN_password;2004:Domain;2005:Port;2006:0»
```



**Note:** Before SMS text, two space symbols should be inserted.

## GPRS SETTINGS:

- 1 2001 – APN
- 2 2002 – APN username (if there are no APN username, empty field should be left)
- 3 2003 – APN password (if there are no APN password, empty field should be left)

## SERVER SETTINGS:

- 4 2004 – Domain
- 5 2005 – Port
- 6 2006 – Data sending protocol (0 – TCP, 1 – UDP)



## DEFAULT CONFIGURATION SETTINGS

### MOVEMENT AND IGNITION DETECTION:



**VEHICLE MOVEMENT**  
will be detected by  
accelerometer



**IGNITION**  
will be detected by  
vehicle power voltage  
between 12 – 30 V



**PASSES**  
300 seconds



**VEHICLE DRIVES**  
100 meters



**VEHICLE TURNS**  
10 degrees



**SPEED DIFFERENCE**  
between last coordinate  
and current position is  
greater than 10 km/h

### DEVICE MAKES A RECORD ON STOP IF:



**1 HOUR PASSES**  
while vehicle is  
stationary



**EVERY 120 SECOND**  
it is sent to the server  
If device has made a  
record

### RECORDS SENDING TO SERVER:

Time intervals and default I/O elements can be changed by using [Teltonika Configurator](#)<sup>1</sup>.

<sup>1</sup> [https://wiki.teltonika-gps.com/view/TFT100\\_Firmware\\_and\\_configurator](https://wiki.teltonika-gps.com/view/TFT100_Firmware_and_configurator)

# MOUNTING RECOMMENDATIONS

## CONNECTING WIRES

- Wires should be connected while the module is not plugged in.
- Wires should be fastened to stable wires or other non-moving parts. Any heat emitting and/or moving objects should be kept away from the wires.
- There should be no exposed wires. If factory isolation was removed while connecting wires, the isolation material should be applied.
- If the wires are placed in the exterior or in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional isolation should be applied and the wires should not be loose.

## CONNECTING IGNITION WIRE

- Be sure to check if it is a real ignition wire i. e. power does not disappear after starting the engine.
- Check if this is not an ACC wire (when key is in the first position, most of the vehicle electronics are available).
- Check if power is still available when you turn off any of vehicles devices.
- Ignition is connected to the ignition relay output. As alternative, any other relay, which has power output when ignition is on, may be chosen.

## CONNECTING GROUND WIRE

- Ground wire is connected to the vehicle frame or metal parts that are fixed to the frame.
- If the wire is fixed with the bolt, the loop must be connected to the end of the wire.
- For better contact scrub paint from the spot where loop is going to be connected.

**PAY ATTENTION!** Connecting the power supply must be carried out in a very low impedance point of on-board vehicle network. These points in the car are the battery terminals. Therefore, we recommend connecting the power of TFT100 (GND and POWER wires) directly to the battery terminals. Another valid option is to connect the wires to the main POWER cable inside the fuse box (if there is none, then to the power supply where the fuses of vehicle's computer are), GND wire must be connected in a special point, designed to connect GND vehicle computer. Connecting the GND at an arbitrary point to the mass of the car is unacceptable, as static and dynamic potentials on the line GND will be unpredictable, which can lead to unstable TFT100 operation and even its failure.

# LED INDICATIONS

## NAVIGATION LED INDICATIONS

| BEHAVIOUR                | MEANING                                          |
|--------------------------|--------------------------------------------------|
| Permanently switched on  | GNSS signal is not received                      |
| Blinking every second    | Normal mode, GNSS is working                     |
| Off                      | Device is not working or Device is in sleep mode |
| Blinking fast constantly | Device firmware is being flashed                 |

## STATUS LED INDICATIONS

| BEHAVIOUR                      | MEANING                                         |
|--------------------------------|-------------------------------------------------|
| Blinking every second          | Normal mode                                     |
| Blinking every two seconds     | Sleep mode                                      |
| Blinking fast for a short time | Modem activity                                  |
| Off                            | Device is not working or Device is in boot mode |

# BASIC CHARACTERISTICS

## PRODUCT

|            |                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------|
| Model name | TFT100-TAIB0*,<br>TFT100-TAIBA**,<br>TFT100-TAIBB***,<br>TFT100-TAIBC****,<br>TFT100-TAIBD***** |
|------------|-------------------------------------------------------------------------------------------------|

\*Standard CAN interface  
\*\*CAN with integrated 120 ohm resistor  
\*\*\*RS485 interface  
\*\*\*\*RS232 interface  
\*\*\*\*\*UART interface

## MODULE

|            |                             |
|------------|-----------------------------|
| Name       | Teltonika TM2500            |
| Technology | 2G(GSM/GPRS)/GNSS/BLUETOOTH |

## GNSS

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| GNSS                 | Teltonika TM2500                                                    |
| Receiver             | L1: GPS, GLONASS, GALILEO,<br>BEIDOU, SBAS*, QZSS*, DGPS*,<br>AGPS* |
| Tracking sensitivity | 33 tracking channel<br>99 acquisition channel                       |
| Position accuracy    | -165 dBm                                                            |
| Velocity accuracy    | < 0.1 m/s (within +/- 15% error)                                    |

|            |        |
|------------|--------|
| Hot start  | < 1 s  |
| Warm start | < 25 s |
| Cold start | < 35 s |

\*Optional GNSS modes available with custom firmware development, for more information contact your sales manager.

## CELLULAR

|               |                                                          |
|---------------|----------------------------------------------------------|
| Technology    | GSM/GPRS                                                 |
| 2G            | GSM: B2/B3/B5/B8                                         |
| GPRS          | GPRS Mobile Station Class B                              |
| Data transfer | GSM (GPRS): Max. 85.6 Kbps (DL) /<br>Max. 85.6 Kbps (UL) |
| Data support  | SMS (TEXT, PDU), Network protocols<br>(TCP,UDP,TLS,DTLS) |

## POWER

|                     |                                             |
|---------------------|---------------------------------------------|
| Input voltage range | 10 - 97 V DC with overvoltage<br>protection |
| Back-up battery     | 1800 mAh Li-Ion battery 3.7 V (6.66<br>Wh)  |
| Internal fuse       | 3.15 A, 125 V                               |

## POWER CONSUMPTION

|                               |           |
|-------------------------------|-----------|
| At 12V (Ultra Deep Sleep)     | < 8 mA    |
| At 12V (Deep Sleep)           | < 12 mA   |
| At 12V (Online Deep Sleep)    | < 12 mA   |
| At 12V (GPS Sleep)            | < 19.5 mA |
| At 12V (Nominal with no load) | < 34 mA   |
| At 12V (With full load/peak)  | < 2 A Max |

## PHYSICAL SPECIFICATION

|            |                                 |
|------------|---------------------------------|
| Dimensions | 72.5 x 73 x 27.3 mm (L x W x H) |
| Weight     | 169 g                           |

## OPERATING ENVIRONMENT

|                                         |                  |
|-----------------------------------------|------------------|
| Operating temperature (without battery) | -20 °C to +75 °C |
| Storage temperature (without battery)   | -20 °C to +75 °C |
| Operating temperature (with battery)    | -20 °C to +60 °C |

|                                    |                             |
|------------------------------------|-----------------------------|
| Storage temperature (with battery) | -20 °C to +45 °C            |
| Operating humidity                 | 5% to 95% non-condensing    |
| Ingress protection Rating          | IP67                        |
| Battery charge temperature         | 0 °C to +45 °C              |
| Battery discharge temperature      | -20 °C to +70 °C            |
| Battery storage temperature        | -10 °C to +45 °C            |
| <b>INTERFACE</b>                   |                             |
| Digital input                      | 4                           |
| Digital output                     | 2                           |
| Analog input                       | 2                           |
| 1-Wire Data                        | 1                           |
| 1-Wire Power                       | 1                           |
| Communication interface            | CAN / RS485 / RS232 / UART* |
| GNSS antenna                       | Internal High Gain          |
| Cellular antenna                   | Internal High Gain          |
| USB                                | 2.0 Micro-USB               |

|                |                             |
|----------------|-----------------------------|
| LED indication | 2 status LED lights         |
| SIM            | Micro-SIM, eSIM**           |
| Memory         | 128MB internal flash memory |

\*Depending on ordered TFT100 modification

\*\*eSIM is available with separate PCB assembly, for more information contact your sales manager

## FEATURES

|                |                                                                                                                                                                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensors        | Accelerometer                                                                                                                                                                                                                                                                               |
| Scenarios      | Eco/Green Driving, Over Speeding, Jamming, Excessive Idling, FallDown, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip/Odometer, Immobilizer, iButton, DOUT control via call, DOUT control via Ignition, Last Known Position, Timestamp Backup, Ignition ON Counter |
| CAN Modes*     | Manual CAN, Manual CAN commands, Manual J1939, Bosch, Askoll, Default J1939, FLEX, Debug                                                                                                                                                                                                    |
| RS485 Modes**  | Log Mode, NMEA, TCP Ascii, TCP Binary, Super Soco                                                                                                                                                                                                                                           |
| RS232 Modes*** | Log Mode, NMEA, TCP Ascii, TCP Binary                                                                                                                                                                                                                                                       |
| UART Modes***  | Log Mode, NMEA, TCP Ascii, TCP Binary                                                                                                                                                                                                                                                       |
| Sleep Modes    | GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep                                                                                                                                                                                                                                  |

|                                   |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Configuration and firmware update | FOTA Web, Teltonika Configurator (USB, Bluetooth)             |
| SMS                               | Configuration, Events, Debug                                  |
| GPRS commands                     | Configuration, Debug                                          |
| Time Synchronization              | GNSS, NITZ, NTP                                               |
| Ignition detection                | Accelerometer, External Power Voltage, DIN1, DIN3, DIN4, CAN* |

\*Available for TFT100-TAIB0 and TFT100-TAIBA

\*\*Available for TFT100-TAIBB

\*\*\*Available for TFT100-TAIBC and TFT100-TAIBD

## CERTIFICATION & APPROVALS

|            |                                                                        |
|------------|------------------------------------------------------------------------|
| Regulatory | CE (RED), EAC, E-Mark, Anatel, UKCA, Ukrainian UCRF, RoHS, REACH, IP67 |
|------------|------------------------------------------------------------------------|

# SAFETY INFORMATION

This message contains information on how to operate the device safely. By following these requirements and recommendations, you will avoid dangerous situations. Please read these instructions carefully and follow them strictly before operating the device!



Do not disassemble the device. If the device is damaged, the power supply cables are not isolated or the isolation is damaged, DO NOT touch the device before unplugging the power supply.



All wireless data transferring devices produce interference that may affect other devices which are placed nearby.



The device must be connected only by qualified personnel.



The device must be firmly fastened in a predefined location.



The programming must be performed using a PC with autonomic power supply.



Installation and/or handling during a lightning storm is prohibited.



The device is susceptible to water and humidity.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



Battery should not be disposed of with general household waste. Bring damaged or worn-out batteries to your local recycling center or dispose them to battery recycle bin found in stores.

# CERTIFICATION AND APPROVALS



This sign on the package means that it is necessary to read the User's Manual before your start using the device. Full User's Manual version can be found in our [Wiki](https://wiki.teltonika-gps.com/view/TFT100)<sup>1</sup>.

<sup>1</sup><https://wiki.teltonika-gps.com/view/TFT100>



This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.

## CHECK ALL CERTIFICATES

All newest certificates may be found in our [Wiki](https://wiki.teltonika-gps.com/view/TFT100_Certification_%26_Approvals)<sup>2</sup>.

<sup>2</sup>[https://wiki.teltonika-gps.com/view/TFT100\\_Certification\\_%26\\_Approvals](https://wiki.teltonika-gps.com/view/TFT100_Certification_%26_Approvals)

# WARRANTY

We guarantee our products 24-month warranty<sup>1</sup> period.

All batteries carry a 6-month warranty period.

Post-warranty repair service for products is not provided.

If a product stops operating within this specific warranty time, the product can be:

- Repaired
- Replaced with a new product
- Replaced with an equivalent repaired product fulfilling the same functionality
- Replaced with a different product fulfilling the same functionality in case of EOL for the original product

<sup>1</sup> Additional agreement for an extended warranty period can be agreed upon separately.

# WARRANTY DISCLAIMER

- Customers are only allowed to return products as a result of the product being defective, due to order assembly or manufacturing fault.
- Products are intended to be used by personnel with training and experience.
- Warranty does not cover defects or malfunctions caused by accidents, misuse, abuse, catastrophes, improper maintenance or inadequate installation – not following operating instructions (including failure to heed warnings) or use with equipment with which it is not intended to be used.
- Warranty does not apply to any consequential damages.
- Warranty is not applicable for supplementary product equipment (i. e. PSU, power cables, antennas) unless the accessory is defective on arrival.
- [More information on what is RMA<sup>1</sup>](#)

<sup>1</sup> [wiki.teltonika-gps.com/view/RMA\\_guidelines](http://wiki.teltonika-gps.com/view/RMA_guidelines)