TELTONIKA GH5200 Worker Badge Plus Autonomous Tracker User Guide

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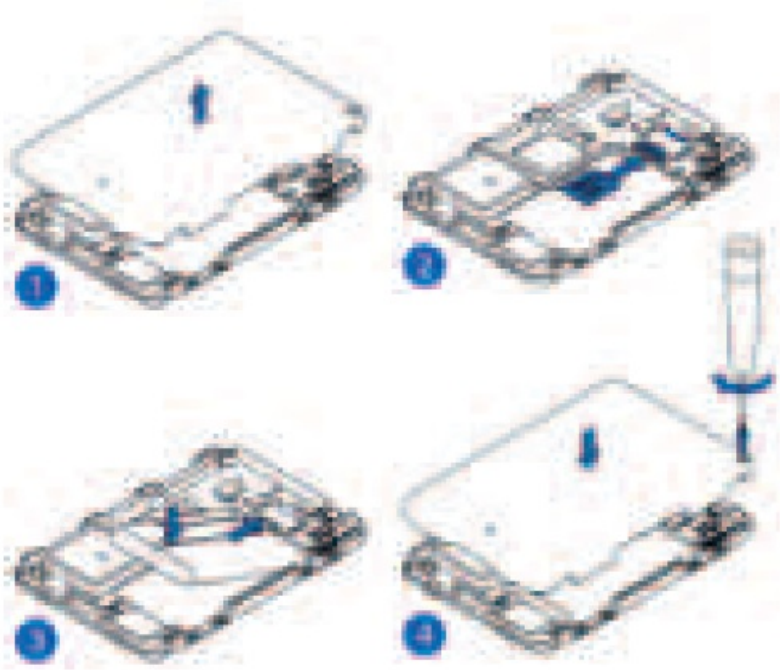
GETTING STARTED

Preparing GH5200 for use

1. Remove the cover.
2. Insert Micro-SIM card as shown with PIN request disabled. Make sure that Micro-SIM card cut-off corner is pointing forward to slot.
3. Insert the battery as shown to device. Position the battery in place where it does not obstruct other components.
4. Reattach the cover and tighten the screw.

Micro-SIM card insertion/ removal must be performed device is turned off. Otherwise
Micro-SIM card might be damaged or device will not detect it



CONFIGURE YOUR DEVICE

02.01. PC PREPARATION (WINDOWS)

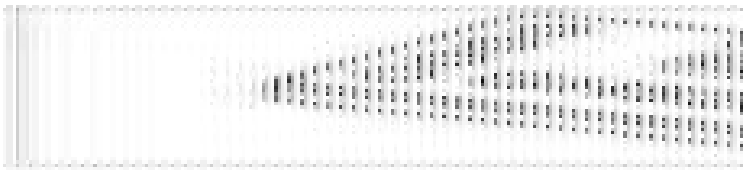
1. Please download Teltonika COM port drivers from here: **https://wiki.teltonika-mobility.com/wikibase/images/d/d0/TeltonikaCOMDriver.zip**
2. Extract and run TeltonikaCOMDriver.exe.
3. Click Next in driver installation window.
4. In the following window click Install button.
5. Setup will continue installing the driver and eventually the confirmation window will appear. Click Finish to complete the setup.

02.02. CONFIGURATOR (WINDOWS)

At first the device will have default factory settings set unless you order pre-configured device. These settings should be changed according to the user's needs. Main configuration can be performed via Teltonika Configurator software: **https://wiki.teltonika-mobility.com/view/GH5200_Stable_firmware**
Configurator operates on Microsoft Windows OS and uses prerequisite MS .NET Framework. Make sure you have the correct version installed: MS .NET Framework 4.6.2 or newer.

02.03. DEVICE CONNECTION AND CONFIGURATION (WINDOWS)

- Turn On device by connecting Micro-USB cable or pressing Power On button for 2 sec. When device is turned on LED's should start blinking.
- For configuration can be used Bluetooth (Device Bluetooth is enabled by default,
- Default password 5555) connection:
- Connect device to Teltonika Configurator.



- Most important configurator section is GPRS – where all your server and GPRS settings can be configured and Data Acquisition – where data acquiring parameters can be configured. Detailed device configuration instructions using Teltonika Configurator can be found in the GH5200 configuration wiki page: **https://wiki.teltonika-mobility.com/view/GH5200_Configuration**
- After you have finished configuring the device, press Save to device button .
- When configuration is saved, then charge device battery to full.
- Disconnect device from USB cable and perform the testing.

CHARACTERISTICS

MODULE

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/ Bluetooth

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS
Receiver	33 channel
Tracking sensitivity	165 dBM
Accuracy	< 3 m
GNSS receiver start times	Hot < 1s, Warm < 25s, Cold < 35s

CELLULAR

Cellular technology	GSM/GPRS Multi-Slot Class 12 (85.6 kbps (DL) / 85.6 kbps (UL))/ GPRS Mobile Station-Class B
2G bands	Quad-band GSM 850 / 900 / 1800 / 1900 MHz
Data support	SMS (text)

POWER

Internal batteries	Li-Ion battery internal battery
Supply Voltage from USB	+4.5.. +5.5V
Battery voltage	3.7 V
Nominal Capacity	1050 mAh
Power	3.885 Wh
Charging temperature range	0..+45°C
Discharge Temperature range	-20..+58°C

Temperature Storage range	-20 to +60°C for 1 month; -5 to +30°C for 6 months
Current consumption (operation/ idle)	GPRS: max average95.57 mA; Nominal: average 45.10 mA; GNSS sleep: average 10.12 mA; Deep Sleep: average 3.02 mA; Online Deep Sleep: average 3.78 mA; Ultra Deep Sleep: average 1.82 mA.
Humidity (operation, storage, transport)	Relative humidity: ≤85% (no condensation)

CONNECTIVITY

Bluetooth	Compliant with Bluetooth 4.0 version + LE
Supported peripherals	Temperature, humidity, movement, magnet sensors, beacon

INTERFACE

GNSS, GSM antenna	Internal High Gain
USB	2.0 Micro-USB
SIM	Micro-SIM, eSIM possibility
Memory	Memory 128 MB internal flash memory (220'000 records)
Button(s)	5 Configurable buttons

SENSORS AND COMPONENTS

Gyroscope	No
Accelerometer	Yes
LED	3 Bi-Color LEDs

Configuration and firmware update	FOTA WEB (Cloud-based firmware over the air solution); Teltonika configurator (USB)
Scenarios	Tracking on Move/Stop, RealTime tracking, Alarm button, Man-Down Detection, Home Zone, Proximity Detection, Amber Alert, Inside Tracking, Movement/No Movement Events, Auto Geofence, Manual Geofence, Over Speeding, Action On Call, Power On/Off event, Event on a Pressed Button, On Demand tracking via button press, Beacon On Demand tracking, Xiaomi Mi Band 2 heart rate measurement and heart rate range exit alerts, Race Mode, Universal Beacons/Sensors support
Protocols	UDP, TCP, SMS
Data sending	Main, Duplicate, Backup servers
Security	Configuration password, SMS login and password, Authorized GSM numbers list, TLS/DTLS 1.2
Sleep Modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep, Low power mode
Time Synchronization	GNSS, NTP, NITZ
GPRS commands	Configuration, Debug

PHYSICAL SPECIFICATION

- Dimensions 95 x 64 x 11 mm (L x W x H)
- Device + case + battery weight 80 g
- Ingress Protection Rating IP30

SAFETY INFORMATION

This message contains information on how to operate GH5200 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! Failure to comply with the warning may result in serious injury or possible damage to property.

Limit the use of device in vehicles
Please follow all restrictions. Wireless devices can interfere with other electronic equipment in vehicles.

Interference
All wireless devices are sensitive to electromagnet-ic interference, as a result wireless devices affect the performance of each other.

Road safety first
Comply with local traffic laws, always hold your hands on a steering wheel when using a device. Your safety is of utmost impor-tance when you drive.

Operate the device in suitable conditions
Do not use the device where mobile connectivity is forbidden.

Limit the use of device in hospitals
Please follow all restrictions. Turn off the device the vicinity of medical devices when required.

Be cautious near flammable materials and liquids

Charging precautions
SELV LPS chargers, personal computers or laptops that device will be connected to must comply with the requirements of IEC 60950:2005 standard.

Use only original batteries
Using uncertified manufacturer or different type batteries may cause the device to malfunction or even explode.

Use batteries safely
Protect batteries from moisture. Place them in a cool and dry place when storing. Avoid extensive operation at high temperatures. Do not attempt charging battery directly from the electrical mains. All utilized batteries shall comply with IEC 62133.

Power supplies
Power supply circuits used to charge the device connection must have safeguards, which prevent power leakage, short circuits or in-correct electrical grounding. Any used switches ought
to be installed in a readily accessible location. Power must be uninterrupted and the distance between the contacts must be 3 mm or larger.

Other
In order to prevent device from mechanical damage it is advisable to transport it in a shock–resistant packaging. If device stopped working properly regardless of the settings only a qualified specialist can help. It is recommended to contact your local seller or your UAB Teltonika manager in such a case.

Use the right screwdriver
In order to prevent device's cover from mechanical damage it is recommended to use screwdriver, which is included in the package. Do not use electrical screw-drivers.

Remove device safely
Device must be disconnected from computer or charger by unplugging the magnetic USB cable from the device.

Do not short circuit the battery or charging contacts. Exposing the metal strips of the battery to a close contact with a metallic object, such a coin, a clip or a set of keys can cause accidental short-circuiting and damage battery and other components.

To be able to disconnect the charging cable from the mains as quickly as possible in the event of a failure, connect the power supply unit where it is easily accessible.

Charging precautions
Do not attempt to charge a wet device.

If you notice any visible damage to your GPS tracker or charging cable, do not use it.

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.

Never place the GPS tracker near an open fire or hot surfaces.

Do not immerse the device in any liquids including salt water, ionized water, or soapy water, or alcoholic beverage. Liquid dam-age not covered under warranty.

If you carry out repairs yourself, connect the GPS tracker incorrectly or operate it incorrectly, liability and warranty claims are excluded.

Make sure that the GPS tracker (also when charging the battery) is kept away from heat sources and high temperatures, such as direct sunlight in a vehicle. Disregarding of this instruction may result in destruction of the battery and overheating, explosion and fire.

Do not remove the battery with sharp or pointed objects. Do not drop, disassemble or modify it.

Use only TELTONIKA TELE-MEDIC approved batteries for replacement. Using uncertified manufacturer or different type batterie may cause the device to malfunction or even explode.

If device is stored for a longer time, we recommend to remove battery from the device to prevent damage to battery life.

Only use the original accessories or accessories with approved by technical support for the charging process. If the battery is charged otherwise, this may result in overheating,
explosion or fire.

Use only the original parts supplied to charge the GPS tracker. If the charging cable is damaged, replace it only with original accessories from the manufacturer or parts approved by our support team.

TROUBLESHOOTING

GH5200 doesn‘t send data to your configured server:

- Check if the device is turned on.
- Check if the SIM card is properly inserted.
- Check if the device has registered to the network.
- Data Acquisition settings are configured correctly.
- Check if your APN, Domain and Port are entered correctly and GPRS data is enabled.

If the device is not detected by the PC or configurator while plugged in:

- Check if the device is turned on and the battery is charged to a sufficient level.
- Try using a different COM port.
- Try different Micro-USB cable.
- Reinstall Teltonika COM Driver.
- Reinstall MS .NET Framework.

More information about troubleshooting can be found in:
https://wiki.teltonika-mobility.com/view/FAQ
If these recommendations did not help, please contact your sales manager or contact us directly through Teltonika VipHelpDesk. Find recommendations on how to fill in a query in our FAQ page in the Teltonika Wiki Knowledge base.

INSTALLATION RECOMMENDATIONS

- We recommend using the device in such a way, that device buttons an LEDs are easily and quickly accessible.

- When using the Man-down feature, the device must be stably fixed in the configured base position.

WARRANTY AND RETURN POLICIES

TELTONIKA devices are given with 24 months warranty. All batteries carry a reduced 6 month warranty period. If a product fails within mentioned warranty period the product can be:

- Repaired
- Replaced with a new product
- Replaced by a repaired product
- Replaced by an equivalent product if the production is discontinued.

This warranty does not apply to products you purchased from unauthorized reseller, or where product is damaged as a result of abuse, accident, modification or other cause beyond our reasonable control.

How to submit a warranty claim
To obtain warranty service, please register Return Merchandise Authorization (RMA) query in VIP Helpdesk or contact your sales manager. After gathering information support engineer will initiate RMA form, which the user would need to fill in. Once the form is confirmed, it must be printed and sent with the shipment. More information can be found at:
https://teltonika-mobility.com/warranty-repair/

CERTIFICATIONS AND APPROVALS

- GH5200 CE RED
- GH5200 EAC
- GH5200 UCRF
- GH5200 FCC
- GH5200 UK CA
- GH5200 IC
- GH5200 Anatel
- GH5200 RoHS
- Declaration of IMEI assignment
- Declaration of IMEI security
- REACH Regulation Declaration
- REACH Regulation Declaration
- Declaration of Conformity to BS8484:2016

DECLARATION OF CONFORMITY

Hereby, Teltonika Telemedic UAB declares that the radio equipment GH5200 is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://wiki.teltonika-mobility.com/view/GH5200_CE_RED

Hereby, Teltonika Telemedic UAB declares that the radio equipment GH5200 is in compliance with the electromagnetic interference under limits approved by the Federal Communications Commission which confirms: FCC ID:2AZXV-GH5200.

The full text of the FCC declaration of conformity is available at the following internet address: https://wiki.teltonika-mobility.com/view/GH5200_FCC
Hereby, Teltonika Telemedic UAB declares that the radio equipment GH5200 is in compliance with the relevant Community harmonization: Union Directive RER 2017 (SI 2017/1206).

The full text of the UK declaration of conformity is available at the following internet address: https://wiki.teltonika-mobility.com/view/GH5200_UKCA
Hereby, Teltonika Telemedic UAB declares that the radio equipment GH5200 is in compliance with the Industry Canada license-exempt RSS standards which confirms: IC: 27304-GH5200.

The full text of the IC declaration of conformity is available at the following internet address: https://wiki.teltonika-mobility.com/view/GH5200_IC

Manufacturer:
Teltonika Telemedic Naugarduko g. 102 LT03160, Vilnius, Lithuania

Full product instructions in different languages can be found under this QR code

Documents / Resources

	TELTONIKA GH5200 Worker Badge Plus Autonomous Tracker [pdf] User Guide GH5200 Worker Badge Plus Autonomous Tracker, GH5200, Worker Badge Plus Autonomous Tracker, Autonomous Tracker, Tracker

References

- Warranty & Repair | Teltonika Mobility
- wiki.teltonika-mobility.com/view/FAQ
- wiki.teltonika-mobility.com/view/GH5200_CE_RED
- wiki.teltonika-mobility.com/view/GH5200_Configuration
- wiki.teltonika-mobility.com/view/GH5200_FCC
- wiki.teltonika-mobility.com/view/GH5200_IC
- wiki.teltonika-mobility.com/view/GH5200_Stable_firmware
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- wiki.teltonika-mobility.com/wikibase/images/d/d0/

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