



ATC774

Battery-powered 4G LTE Cat 1 asset tracker
designed for long-term deployments

Quick Manual v1.0 | 2026-06-12



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GLOSSARY

CEP – Circular Error Probable: a statistical measure used to describe the accuracy of a positioning system, commonly used in the context of GNSS. CEP represents the radius of a circle, centered on the true position, within which a given percentage (usually 50%) of the measured positions are expected to fall.

COM port – Serial communication interface that is used to transfer information to/from devices such as modems, terminals and various peripherals.

COLD start – A COLD start occurs when the GNSS receiver lacks all the necessary information for a position fix, requiring it to start from scratch. This means it needs to acquire and decode the almanac and ephemeris data from the satellites, determine the satellite positions, and calculate its position.

FOTA – Firmware-Over-The-Air.

HOT start – A HOT start occurs when the GNSS receiver has all the necessary information to calculate a position fix readily available. This includes the almanac and ephemeris data, the approximate time, and its last known position.

IMEI – International Mobile Equipment Identity: a unique numeric identifier used by networks to identify devices.

NITZ – Network Identity and Time Zone: a mechanism in GSM, used to provision time, date and other parameters to mobile devices in a network.

NTP – Network Time Protocol: a networking protocol for clock synchronization between computer systems.

SELV – Safety Extra Low Voltage: an electrical system in which the voltage cannot exceed 50 VAC or 120 VDC under normal conditions, and under single-fault conditions, including earth faults in other circuits.

Record – AVL data stored in device memory. AVL data contains GNSS and I/O information.

WARM start – A WARM start occurs when the GNSS receiver has some, but not all, of the necessary information for a position fix. It might have valid almanac data but needs to download new ephemeris data or doesn't have an accurate estimate of its current time or position.

i SIM card should be inserted in the module while the connector is plugged off (while module has no power).



SAFETY INFORMATION

This section contains information on how to operate ATC774 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully before operating the device and follow them strictly!

To avoid mechanical damage, it is advised to transport the device in an impact-proof package. Before usage, the device should be placed so that its LED indicators are visible. They show the status of device operation.

SIGNALS AND SYMBOLS

Warnings and cautions which are general to the use of the device under all circumstances are included in this section. Some warnings and cautions are also inserted within the manual where they are most meaningful.



CAUTION! Cautions alert users to exercise appropriate care for safe and effective use of the product.



WARNING! This classifies a hazard of medium risk level. Failure to comply with the warning may result in serious injury.



Please note: Notes provide additional guidelines or information.



WARNING: 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.



WARNING: 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.



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

DATA SAFETY AND PRIVACY

In accordance with the General Data Protection Regulation (GDPR), this Data Processing Agreement (DPA) establishes obligations between Teltonika, the data processor, and its customers, acting as data controllers. The DPA outlines how Teltonika will handle customer data while adhering to GDPR regulations. This includes details on the data Teltonika can process, security measures in place, and customer rights concerning their data.

For a comprehensive understanding of the agreement, including permitted sub-processors, data breach procedures, and dispute resolution, please refer to the full Data Processing Agreement:

teltonika-gps.com/about-us/policies-certificates/data-processing-agreement



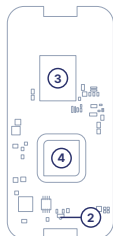
KNOW YOUR DEVICE

Top view



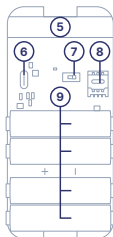
1. Screw mounting holes
2. RGB LED
3. Modem

Top view
(without cover)



4. GNSS antenna
5. LTE antenna
6. USB Type-C connector

Bottom view
(without cover)



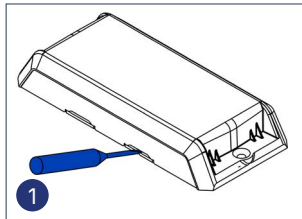
7. Power switch
8. SIM slot
9. Batteries

STANDARD PACKAGE CONTAINS

- 1 pc. ATC774 tracker
- Packaging box with Teltonika branding

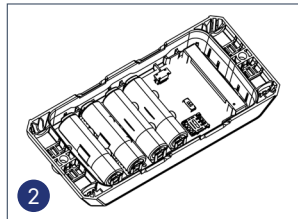


SET UP YOUR DEVICE

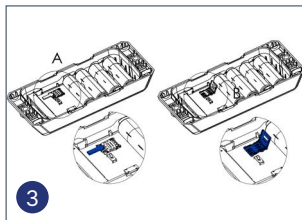


1. Remove top cover

You will receive the tracker with the top cover partially closed. Use a flat screwdriver and open one side of the top cover.

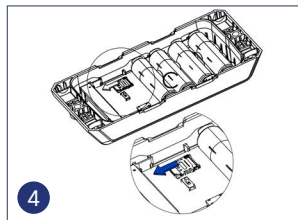


2. Turn the device upside down



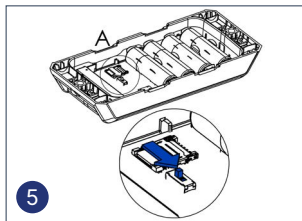
3. Insert SIM card (1)

Slide the nano-SIM card holder, then open it.



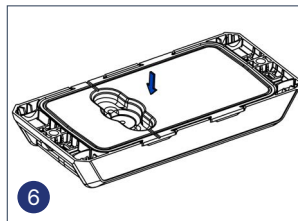
4. Insert SIM card (2)

Insert the nano-SIM card into the holder, then close it and slide the top part to lock it.



5. Turn on

Turn on the device, moving the switch to the ON position



6. Re-attach top cover

Press firmly the top cover, pressing all corners until the surfaces are flush to each other



PC CONNECTION (WINDOWS)

1. Connect device to the computer using USB Type-C cable.
2. Install USB driver, see "How to install USB drivers (Windows)"

HOW TO INSTALL USB DRIVERS (WINDOWS)

1. Download COM port drivers from [here](#)¹.
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.

CONFIGURATION (WINDOWS)

Most Teltonika devices are shipped with default factory settings. Use [Telematics Configuration Tool \(TCT\)](#)² to change these settings according to your needs.

TCT	
Operating system	Windows 10 Windows 11
MS .NET Framework version	MS .NET framework 6.0
Version	64 bit
Disk Storage	1 GB of free disk space
Internet	Ethernet port or Wi-Fi w/ network access for auto-update

¹ wiki.teltonika-gps.com/images/d/d0/TeltonikaCOMDriver.zip

² wiki.teltonika-gps.com/view/Getting_started_with_TCT



TCT

1. Download the TCT (compressed archive).
2. Extract the archive and launch the executable. The TCT will be installed.
3. In the Discovered devices list, select your device and press Configure.
4. The Device status window opens. It contains device, GNSS and Cellular information.

The screenshot shows the TCT Device status window. It is divided into three main sections: Device information, GNSS information, and Cellular information. The Device information section includes fields for Device name, IMEI, Base to server region, GPS to server region, Last start time (UTC), GPS time (UTC), Base number, Power voltage, Ext. charge level (Vbat), Base to server region, Base to server region, and Base to server region. The GNSS information section includes fields for Base to server region, GPS to server region, Last start time (UTC), GPS time (UTC), Base number, Power voltage, Ext. charge level (Vbat), Base to server region, Base to server region, and Base to server region. The Cellular information section includes fields for Base to server region, GPS to server region, Last start time (UTC), GPS time (UTC), Base number, Power voltage, Ext. charge level (Vbat), Base to server region, Base to server region, and Base to server region.

Save to device

Save to device – saves configuration to device.

Upload file (.cfg)

Upload file – loads configuration from file.

Save to file

Save to file – saves configuration to file.

Update

Update – update device firmware.

Reset configuration

Reset configuration – sets device configuration to default.

Most important configurator sections are Mobile network (server, Mobile network settings) and Tracking settings (data collection parameters). More details about ATC774 configuration using TCT can be found on our Wiki²

DEFAULT CONFIGURATION SETTINGS

RECORDS SENDING TO SERVER:

The device operates in **Basic tracking mode**, transmitting a location record to the server **every 24 hours** regardless of the product's movement status.

SLEEP MODE:

The device uses a predefined sleep mode optimized for maximum power efficiency and minimal energy consumption; this mode is not user-configurable. While in sleep between periodic transmissions, the device remains in a reduced activity state and is not available for SMS or GPRS communication.

Time intervals and default I/O elements can be changed by using TCT³, SMS parameters⁴ or FOTA Web.

³ https://wiki.teltonika-gps.com/view/ATC774_Configuration

⁴ https://wiki.teltonika-gps.com/view/ATC774_Parameter_List



QUICK SMS CONFIGURATION

The default configuration ensures best track quality and optimal 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»
```



- 1 Before SMS text, one space symbol should be inserted. This space is dedicated to device SMS password.

GPRS SETTINGS:

- 2 **2001** – APN
- 3 **2002** – APN username (leave field empty if there is no APN username)
- 4 **2003** – APN password (if there are no APN password, empty field should be left)

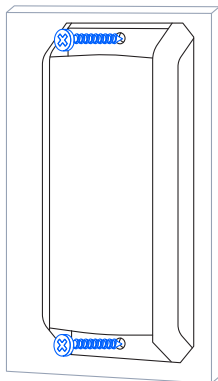
SERVER SETTINGS:

- 5 **2004** – Domain
- 6 **2005** – Port
- 7 **2006** – Data sending protocol (0 – TCP, 1 – UDP)



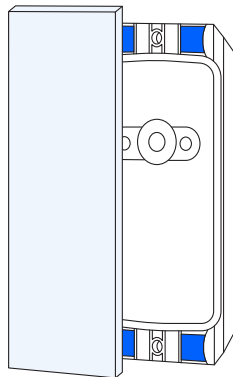


MOUNTING RECOMMENDATIONS



1. SCREWS¹

The enclosure has two dedicated slots for screws, allowing secure and easy attachment to a surface.



2. MAGNETIC MOUNTING² (IN PROGRESS)

Magnets can be integrated into the enclosure for easy attachment to metal surfaces.

¹ This accessory is not included in the product package.

² Choose with or without integrated magnets when placing the order.



TROUBLESHOOTING

Troubleshooting section provides guidance to resolve frequently encountered issues during the setup and operational phases of the ATC774 device.

FREQUENTLY USED SMS/GPRS COMMANDS

Command	Description	Response sent on success?	Response sent on failure?
cpureset	Restarts the device	No	Yes
getstatus	Returns status of the device	Yes	Yes
alver	Returns information about device firmware and hardware	Yes	No
web_connect	Triggers FOTA service / connection	Yes	Yes

LED INDICATIONS

Meaning	Colour	Behaviour	Duration
Power on	Green	Steady	3 s
FW update	Blue	Blinking - 0.1 s ON / 0.1 s OFF	Until update finished
CFG uploading	Blue	Steady	3 s
Periodic record sending	Yellow	Blinking - 0.2 s ON / 2 s OFF	Until record is sent or failed
Record sent with GNSS fix	Blue	Steady	3 s
Record sent no GNSS fix	Yellow	Steady	3 s
Record sending failed	Red	Steady	3 s
Normal operation	Blue	Blinking - 0.5 s ON / 1 min OFF	In idle



BASIC CHARACTERISTICS

Module

Name	ATC774-QMA50: Quectel EG915K-EU with AG3352 ATC774-QMA51: Quectel EG915K-EU with AG3352 ATC774-QNA50: Quectel EG915K-LA with AG3352 ATC774-QNA51: Quectel EG915K-LA with AG3352
Technology	LTE CAT 1/GNSS
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU
Receiver	135 tracking/acquisition channels
Tracking sensitivity	-165 dBm
Position Accuracy	< 1.8 m CEP
Hot start	< 1 s
Warm start	< 25 s

Cellular

4G bands	ATC774-QMA50: LTE FDD: B1/B3/B5/B7/B8/B20/B28 ATC774-QMA51: LTE FDD: B1/B3/B5/B7/B8/B20/B28 ATC774-QNA50: LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66 ATC774-QNA51: LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66
Data transfer	LTE FDD (CAT 1): Max. 10 Mbps (DL) / Max. 5 Mbps (UL)
Transmit power	Class 3 for LTE-FDD: 23±2dBm
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)

Power

Internal battery	ATC774-QMA50: primary, 8800mAh Li-SOCl ₂ , 3.6V (32,56 Wh) ATC774-QMA51: rechargeable, 3200 mAh Li-Ion, 3.7V (11.84 Wh) ATC774-QNA50: primary, 8800mAh Li-SOCl ₂ , 3.6V (32,56 Wh) ATC774-QNA51: rechargeable, 3200 mAh Li-Ion, 3.7V (11.84 Wh)
Internal fuse	1.5A (resettable)
Power Consumption	Sleep mode: 10uA

Bluetooth® Technology

Specification	5.3 + LE
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Interface

GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 USB Type-C
LED indication	1 status RGB LED light
SIM	Nano-SIM
Memory	16MB internal flash memory

Physical Specification

Dimensions	156 × 70 × 25.2 mm (L x W x H)
Weight	ATC774 - QMA50, QNA50: 251g ATC774 - QMA51, QNA51: 253g

Operating Environment

Operating temperature (with battery)	-20°C to +60°C
Storage temperature (with battery)	ATC774 - QMA51, QNA51: ≤ 1 month -20 °C to +45 °C ≤ 3 months -20 °C to +35 °C ≤ 1 year -20 °C to +25 °C ATC774 - QMA50, QNA50: up to +30 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP68

Data Codec

Data sending protocols	Codec 8 extended ¹
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Features

Sensors	Accelerometer
Scenarios	Periodic tracking, Scheduler, Movement-based tracking, Configurable LED indication
Sleep modes	Non-configurable dynamic sleep mode designed for maximum battery preservation
Configuration and firmware update	FOTA Web ² , Teltonika Configurator (TCT) ³
Time Synchronization	GPS, NTP
Movement detection	Accelerometer

¹wiki.teltonika-gps.com/view/Codec#Codec_8_Extended

²wiki.teltonika-gps.com/view/FOTA_WEB

³https://wiki.teltonika-gps.com/view/Teltonika_Configurator



CERTIFICATION AND APPROVALS¹



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](#)²



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



Hereby, Teltonika declare under our sole responsibility that the above described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).



UK Conformity Assessed (UKCA) marking is a conformity mark that indicates conformity with the applicable requirements for above described products sold within Great Britain.



The Australian Standard AS/NZS 4417.1 and AS/NZS 4417.2 Marking of electrical products to indicate compliance with regulations – General rules for use of the mark provides general requirements for the use of the RCM including location of the marking on the equipment and its dimensional requirements.



E-Mark and e-Mark are the European conformity marks issued by the transport sector, indicating that the products comply with relevant laws and regulations or directives. Vehicles and related products need to go through the E-Mark certification process to be legally sold in Europe.

CHECK ALL CERTIFICATES

All newest certificates may be found in our [Wiki](#)³

¹ In progress

² wiki.teltonika-gps.com/view/ATC774_Certification_%26_Approvals

³ wiki.teltonika-gps.com/view/ATC774



WARRANTY

We guarantee our products 24-month warranty¹ 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

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 RMA²](#)

¹Additional agreement for an extended warranty period can be agreed upon separately.

²wiki.teltonika-gps.com/view/RMA_guidelines



COMPANY DETAILS

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TELEMATICS WEBSITE
teltonika-gps.com

For more information about our products and services, please visit our website: teltonika-gps.com.



WIKI KNOWLEDGE BASE
wiki.teltonika-gps.com

For technical assistance, troubleshooting, and further inquiries, refer to our comprehensive support resources at our technical assistance portal: [Teltonika Wiki](https://wiki.teltonika-gps.com).



FOTA WEB
fota.teltonika.lt