

TAT100 Stable firmware

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CAUTION!



Both firmwares (Modem and BlueNRG) must be flashed into device. Failing so can lead to unexpected device behavior and rapid battery discharge.

TAT100 BlueNRG & Modem FIRMWARE UPDATE GUIDE

TATXYZ FIRMWARE UPDATE GUIDE

Download Firmware and Configurator from **STABLE FIRMWARE** or **SHORT-TERM FIRMWARE** pages.

After device connection to Configurator:

- 1) Select Update firmware;
- 2) Select to flash Firmware(*.e.XIM) file;
- 3) Click on file;
- 4) And select Open.

Wait until the device will upload the firmware.



When parameters successfully loaded:

- 1) Select Update firmware;
- 2) Select to flash BlueNRG firmware(*.bin);
- 3) Click on file;
- 4) And select Open.



TAT100 Stable Firmware and Software

FIRMWARE VERSION:
CONFIGURATOR VERSION:
BlueNRG VERSION:
RELEASE DATE:

STABLE FIRMWARE
V3.40.14 Rev.364
1.7.74_R.TAT1_R.6
BlueNRG version:
10.4.12 for TAT100 HW ver.: 31
0.4.12 for TAT100 HW ver.: 62
2024.03.12

DOWNLOAD
Firmware & BlueNRG for TAT100
Firmware & BlueNRG for TAT100 (HW.31)
Firmware & BlueNRG for TAT100 (HW.62)
Configurator

DOWNLOAD ALL
DOWNLOAD FIRMWARE & CONFIGURATOR
DOWNLOAD ALL FIRMWARE & CONFIGURATOR
DOWNLOAD FIRMWARE & CONFIGURATOR
DOWNLOAD FIRMWARE & CONFIGURATOR

On request via Teltonika HelpDesk

TAT100 Hardware version identification

- If Serial Number [S/N] is greater than **1122473261**, then device version: **TAT100 HW: 62**.
- If Serial Number [S/N] is less than **1122473261**, then device version: **TAT100 HW: 31**.

ORDERS AFTER 2022-03-17 WILL BE WITH TAT100 HARDWARE: 62

 **CAUTION!**

When updating firmware via FOTA WEB, pay attention to notice above.

CHANGELOG

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
Firmware version: 55.00.16.Rev. 564 BlueNRG version: 10.4.12 for TAT100 HW ver.: 31 0.4.12 for TAT100 HW ver.: 62 Configurator version: 1.7.74_B.TAT1_R.6	2024.03.12	• Fixed configurator crash after firmware update. • Added cell ID I/O elements • Fixed error when disabling BLE features in configuration. • Added GSM area code I/O element • Simplified EYE sensor configuration. • Added Autonomous Alarm System feature.	• Fixed periodic timer starting in Recovery mode. • Improved backup tracker scan procedure. • Fixed issue with GPS fix with First Power On record. • Improved energy management in sleep mode when device is in motion. • Fixed crash on BLE sensor alarm. • Bluetooth scanning and data parsing optimization. • DNS resolve improvements. • Fixed periodic timer starting when tracking scenario selected as None. • Changed default movement sensitivity to 150 mG • Changed default GNSS mode to GLONASS, GPS and GALILEO • Fixed EYE sensor data multiplier for correct data displaying. • Fixed issue if GPRS is lost during record sending. • Fixed GPRS command processing in UDP mode. • Improved received SMS reading process. • Improved connection to Fota process. • Fixed BLE sensor data not being included in periodic records. • Improved static navigation logic. • Improved Bluetooth scan stability. • Added BLE beacons for Recovery mode trigger. • Movement logic rework. • Added condition to stop GNSS search if less than 3 satellites found in the first 60 seconds.
VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES

Firmware version: 55.00.16.Rev.545 BlueNRG version: 10.3.12 for TAT100 HW ver.: 31 0.3.12 for TAT100 HW ver.: 62 Configurator version: 1.7.16_E.TAT100.R23 RELEASE	2022.08.23 • No changes	• Fixed issue with incorrectly detected SIM slot for eSIM devices.
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Firmware version:
55.00.16.Rev. 543
BlueNRG version:
10.3.12 for TAT100 HW ver.: 31
0.3.12 for TAT100 HW ver.: 62
Configurator version:
1.7.16_E.TAT100.R23
RELEASE

2022.08.08

- Updated Teltonika Configurator version to set Central device default IMEI to 3000000000000000
- Added Recovery mode option
- Added I/O element of Recovery Mode
- Added more options of movement sensitivity threshold [50-1000mG]
- Configurator for BLE FW and Backup FW was merged into one.
- SMS command created for getting device statistics
- Protection from writing other devices FW
- Added condition to prevent modem waking up at midnight if scheduler is configured
- Added reconfiguration mechanism that lets FW work with / without SMPS filterMissing
- Fixed issue of missing 4th sensor's data with Monitoring operand
- Fixed too frequent / unnecessary scans with all sensors configured as monitoring
- Fixed sensors scan starting with monitoring operand when Backup tracker is configured
- Backup tracker scan not starting right after
- Time synchronization every 24 hours
- Fixed LBS data sending issue
- New AVL ID 20015 for Modem UpTime (in seconds)
- Added response sending if recovery command is sent through GPRS
- The next periodic record after Recovery mode deactivation being sent with AVL ID 20012 - fixed
- Reduced EQ Core update frequency
- Fixed battery consumption issue when GSM is jammed.
- LED status changed from constant on to blinking mode to save the battery
- Added Recovery mode feature
- Implemented Recovery mode activation from the Backup tracking alarm
- Added EYE sensors support
- Fixed Minor bugs regarding the sensors
- Fixed Short period Recovery Mode records
- Extended Backup Tracker: Central device IMEI range
- Backup tracker: Scanning logic has been changed, scan duration is not configurable anymore, it is up to 60 seconds by default now.
- Implemented Record timestamp shift feature
- Fixed BLE sensor records with wrong event ID being sent
- Fixed BLE sensor record duplicates with On change operand
- Fixed BLE sensor On Exit record not generating when switching to sleep mode
- Fixed Custom1 sensor data in SMS being sent as NaN (*empty*)
- Fixed duplicate BLE sensor data after waking up
- Changed required packets amount in backup tracker scenario and minimal scan duration
- Fixed backup tracker alarm not triggering just before wakeup
- Fixed backup tracker not detecting enough packets during BLE scan
- Periodic records do not affect backup tracker alarm record generation

Firmware 2021.12.2
version: 1
55.00.16.Rev.
522
BlueNRG
version:
10.2.21.Rev.0
1
Configurator
version:
1.7.16_R.TAT1
00.R2

- Improved battery safety features
 - Fixed stuck download during FOTA update
 - Fixed device not restarting to update FW after FOTA download
 - Improved main device packet filtering
 - Improved battery voltage measurement
 - Fixed the device not restarting after FOTA WEB update when it happens at the same time as periodic record
 - Fixed random statistic losses
 - Fixed GNSS module status not being accurate in Teltonika Configurator
 - Improved static navigation mode
 - Fixed scheduler time resync timer not working properly
 - Fixed statistic not being deleted from RAM
-

Firmware 2021.10.1
version: 9
55.00.15.Rev.
519
BlueNRG
version:
10.2.14
Configurator
version:
1.7.16_R.TAT1
00.R2

- Fixed fake movement detection on startup
- Fixed problem when the device is stuck in **On Stop** tracking mode after reconfiguration
- Added Power-On reason data and fixed version changes to device statistics
- Fixed Backup tracker issue where the alarm mode is not immediately activated when the central device disappears
- Fixed empty GSM I/O elements
- Fixed an issue where UTC is added after each reconfiguration
- Added record printing to **Dump log**
- LBS data is not included in records if GNSS fix was caught
- Fixed NTP timesync failure if offset is zero
- Improved record creation (wake up from sleep) during **Backup tracker** alarms

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- Improved GNSS module control with **Static Navigation** and LBS
 - Added prevention from inappropriate record generation if the battery is low (HW watchdog)
 - Added statistic element for USB connected uptime
 - Added timestamp to BlueNRG serial prints
 - Minor improvement for BlueNRG firmware update via configurator
 - Added filter for LBS cell_id duplicates
 - Improved Bluetooth sensor record creation with '**On Change**' operand
 - Added Bluetooth sensor support
 - Added condition to skip LBS data update if location source is only GNSS
 - Increased retries of AT+# command in order to avoid empty LBS data from modem
 - Changed **Open link** timeout to 15s
 - Fixed an issue where the tracking mode would change from the scheduler to periodic
 - Improved logic for multiple FOTA Web tasks update in the same connection
 - Implemented rule for additional connection to FOTA Web after baseband firmware update
 - Added accelerometer version information inside '**.info**' serial command
 - Fixed an issue with battery voltage I/O element when record saving is overlapping with a firmware update
 - Fixed **Scheduler** record sending at midnight
 - Fixed missed LBS values inside I/O elements
 - Fixed an issue when GNSS speed is not zero while the device is in a stationary position
 - General minor improvements
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55.00.10.Rev. 2021.05.1 509 0 BlueNRG: 10.2.3_Rev.00 1.7.16_E.TAT1 00_04	• Added Test Connection button • Temporarily removed Secondary Server Settings • Tracking Period default value changed to 28800 (s)	• Implemented Test Connection feature. • Added BlueNRG logging to DUMP files • Added LBS data logging to DUMP files • Added protection that blocks FMB firmware flash to AT devices • Added time-sync update with <i>asset purpose</i> command • Improved periodic record timer logic • Improved battery voltage measurement • Improved periodic GPRS data sending while USB is connected to the device • Disabled SMPS filter • Fixed record sending when movement is triggered at all times • Improved NTP time-sync
55.00.05.Rev. 2020.12.0 510 3 BlueNRG: 0.1.7	• Removed tracking scenarios • Removed speed source parameter • Removed record saving/sending without TS parameter • Removed LED Indication parameter • Removed NTP resync parameter	• Implemented FOTA support. • Improved GNSS position capturing. • Reworked Periodic and Scheduler tracking counters. • Implemented device logging via USB. • Implemented statistics acquisition to flash memory.
55.00.05.Rev. 2020.09.2 507 9 BlueNRG: 0.1.5	• Implemented GNSS Source configuration. Available options: BeiDou, GLONASS, Galileo and GPS. • Added I/O elements: Data Mode, GSM Signal, GNSS Status, GNSS PDOP, GNSS HDOP, Speed, GSM Cell ID, GSM Area Code, Battery Voltage, Active GSM Operator, ICCID, Coordinates ISO6709. • Added SMS command authorization via Login and Password logic.	• Implemented 'Codec 8', 'Codec 8 Extended' and 'Codec 12' protocols. • Implemented NTP, NITZ and GNSS time synchronization sources. • Implemented ability to send GPRS data from device via TCP or UDP channels. • Implemented connection to server timeouts. • Ported TLS encryption functionality from other Teltonika devices. • Implemented Periodic and Scheduler tracking. • Implemented BlueNRG firmware update via GPRS. This function will be used to reflash BlueNRG firmware via FOTA WEB. • Added GSM number authorization logic.

FMX Firmware compatibility table for Backup Tracker feature

FMX firmware version

Product Name	From 03.28.0 6.Rev.X X versions (Recommended base version 03.28.0 7.Rev.0 3)	From 03.29.0 0.Rev.X X versions (Development in progress)
FMB900	+	+

FMB910	+	+
FMB920	+	+
FMC920	-	+
FMM920	-	+
FMB010	+	+
FMB020	+	+
FMT100	+	+
FMB110	+	+
FMB120	+	+
FMB122	+	+
FMB125	+	+
FMB130	+	+
FMC125	(Only older versions with Quectel modems)	+
FMC130	(Only older versions with Quectel modems)	+
FMC13A	-	+
FMM125	+	+
FMM130	+	+
FMM13A	-	+
FMB202	+	+
FMB204	+	+
FMB225	+	+
FMB230	+	+
FMC225	-	+
FMC230	-	+
FMM230	+	+
FMB001	+	+
FMB002	+	+
FMB003	+	+
FMC001	+	+
FMC003	-	+
FMC00A	-	+
FMM001	+	+
FMM003	-	+
FMM00A	-	+
FMB140	+	+
FMB240	+	+

MSP500	-	-
FMB640	-	-
FMC640	-	-
FMM640	-	-