

# GH5200 Stable firmware

[Main Page](#) > [Autonomous Trackers](#) > [GH5200](#) > [GH5200 Firmware and configurator](#) > **GH5200 Stable firmware**



## Contents

- [1 Stable Base firmware](#)
- [2 BASE CHANGELOG](#)
- [3 Stable Proximity firmware](#)
- [4 PROXIMITY CHANGELOG](#)

## Stable Base firmware

FIRMWARE VERSION:	STABLE BASE FIRMWARE	55.02.03 Rev.03	DOWNLOAD
CONFIGURATOR VERSION:		1.7.06 B.35.2_R.10	DOWNLOAD
RELEASE DATE:		2023-12-13	DOWNLOAD

## BASE CHANGELOG

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
---------	--------------	----------------------	------------------

<b>55.02.03</b> <b>.Rev.05</b> <b>1.7.66</b> <b>B.55.2</b> <b>R.10</b>	2024-01-30	<ul style="list-style-type: none"> <li>• [CHN] Added new AVL ID's SMS events tab</li> <li>• [FIX] Fixed Online vs Offline configuration discrepancies</li> <li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li> <li>• [FIX] Fixed Tool Tips inaccuracies</li> <li>• [ADD] Added EYE Sensors support settings and filtering by sensors name and MAC address</li> <li>• [CHN] Changed device wiki links to teltonika-gps</li> <li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab</li> <li>• [FIX] Fixed Roaming operator/Operator Black List .csv file importing</li> <li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li> <li>• [ADD] Added configurable accelerometer sensitivity settings</li> <li>• [ADD] Added continuous battery charging mode</li> <li>• [CHN] Changed minimum BLE scan start period value</li> </ul>	<ul style="list-style-type: none"> <li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li> <li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li> <li>• [ADD] Added CSQ level parameter</li> <li>• [FIX] Fixed Event Notification SMS text maximum length</li> <li>• [ADD] Added , <i>shutdown</i>' SMS/GPRS command to power off device</li> <li>• [ADD] Added configurable accelerometer sensitivity options in sleep mode</li> <li>• [FIX] Fixed ,<i>btgetlist 3</i>' SMS command</li> <li>• [FIX] Changed battery voltage measurement and charging algorithm</li> <li>• [ADD] Added EYE Sensor support</li> <li>• [ADD] BLE sensors Custom field data are displayed in decimal now</li> <li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li> <li>• [ADD] Added " <i>dropcall</i>" SMS command to hang up the call.</li> <li>• [ADD] Added call duration limits for Alarm event</li> <li>• [ADD] Added Call duration limits for each keyboard button</li> <li>• [FIX] Fixed call and SMS send issue for Feature&gt;&gt;Event notification</li> <li>• [FIX] Refactored battery percentage limits checking algorithm</li> <li>• [FIX] Fixed battery charging status</li> <li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li> <li>• [ADD] Added ability to switch audio to Bluetooth headset/speaker with a button.</li> <li>• [FIX] Fixing issue when incoming call voice audio doesn't work via HFP</li> <li>• [FIX] AXL and LIS3DH changes to prevent unwanted wake up from sleep mode and prevent fake movement detection</li> <li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li> <li>• [FIX] Fixed GSM established LED indication turning off issue</li> <li>• [CHN] Changed minimum BLE scan start period configuration value.</li> </ul>
<b>VERSION</b>	<b>RELEASE DATE</b>	<b>CONFIGURATOR CHANGES</b>	<b>FIRMWARE CHANGES</b>

<b>55.02.03.</b> <b>Rev 05</b> <b>1.7.66_B.</b> <b>55.2_R.1</b> <b>0</b>	2023-12-13	<ul style="list-style-type: none"> <li>• [CHN] Added new AVL IDs SMS events tab</li> <li>• [FIX] Fixed Online vs Offline configuration discrepancies</li> <li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li> <li>• [FIX] Fixed Tool Tips inaccuracies</li> <li>• [ADD] Added EYE sensors support settings and filtering by sensor's name and MAC address</li> <li>• [CHN] Changed device wiki links to teltonika-gps</li> <li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab.</li> <li>• [FIX] Fixed Roaming operator/Operator Black list .csv file importing</li> <li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li> <li>• [ADD] Added configurable accelerometer sensitivity settings</li> <li>• [ADD] Added events call duration limits</li> <li>• [ADD] Added call duration limits for keyboard buttons independently.</li> <li>• [ADD] Added continuous battery charging mode</li> <li>• [CHN] Changed minimum BLE scan start period value.</li> </ul>	<ul style="list-style-type: none"> <li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li> <li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li> <li>• [ADD] Added CSQ level parameter</li> <li>• [FIX] Fixed Event Notification SMS text maximum length</li> <li>• [ADD] Added , shutdown' SMS/GPRS command to power off device</li> <li>• [ADD] Added configurable accelerometer sensitivity options in sleep mode</li> <li>• [FIX] Fixed ,btgetlist 3' SMS command</li> <li>• [FIX] Changed battery voltage measurement and charging algorithm</li> <li>• [ADD] Added EYE sensor support</li> <li>• [ADD] BLE sensors Custom field data are displayed in decimal now</li> <li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li> <li>• [ADD] Added " dropcall" SMS command to hang up the call.</li> <li>• [ADD] Added call duration limits for Alarm event</li> <li>• [ADD] Added Call duration limits for each keyboard button</li> <li>• [FIX] Fixed call and SMS send issue for Feature&gt;&gt;Event notification</li> <li>• [FIX] Refactored battery percentage limits checking algorithm</li> <li>• [FIX] Fixed battery charging status</li> <li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li> <li>• [ADD] Added ability to switch audio to Bluetooth headset/speaker with a button.</li> <li>• [FIX] Fixing issue when incoming call voice audio doesn't work via HFP</li> <li>• [FIX] AXL and LIS3DH changes to prevent unwanted wake up from sleep mode and prevent fake movement detection</li> <li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li> <li>• [FIX] Fixed GSM established LED indication turning off issue</li> <li>• [CHN] Changed minimum BLE scan start period configuration value.</li> </ul>
--	------------	--	---

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
---------	--------------	----------------------	------------------

<b>55.01.02.Rev.01</b> <b>1.6.11_R.30</b>	2021.10.25	<ul style="list-style-type: none"> <li>• Change No Movement/Movement event SMS text</li> <li>• Added Race Mode feature</li> </ul>	<ul style="list-style-type: none"> <li>• Added Race Mode for GNSS data live tracking</li> <li>• Fixed LED indication stuck when Man-Down Cancel button is pressed</li> <li>• Fixed FW version display in FOTA WEB</li> <li>• Fixed possibility to configure forbidden GNSS source via SMS or GPRS</li> <li>• Fixed fake movement events when Low power mode is used</li> <li>• Fixed BLE scan stuck when Xiaomi bracelet is used</li> <li>• Fixed restarts when Beacon on Demand feature is used for longer time</li> <li>• Fixed Alarm call delay issue</li> <li>• Fixed FW update issue with XT26G01CWSIGT flash</li> <li>• Added XT26G01CWSIGT and GD5F1GQ5UE NAND flash support</li> <li>• Changed minimum charging temperature from -10°C to 1°C</li> <li>• SMS commands will return time with applied time zone</li> <li>• The maximum battery charging temperature changed from 50°C to 45°C</li> <li>• Maximum operating temperature changed from 65°C to 59°C</li> </ul>
<b>55.00.21.Rev.00</b> <b>1.6.11_R.26</b>	2021.08.10	<ul style="list-style-type: none"> <li>• Added Tool tips information about Beacon record mode 'No Send'.</li> <li>• 'Data Acquisition' tool tips and labels changed.</li> <li>• Changed BLE 'Update frequency' name and tool tips.</li> <li>• Amber Alert tool tip changes.</li> <li>• Amber Alert timeout name changed.</li> </ul>	<ul style="list-style-type: none"> <li>• Xiaomi Mi Band 2 support.</li> <li>• Added possibility to Enable or Disable Mandown/Movement/No Movement features while charging.</li> <li>• Fixed invalid SMS number when reporting position after call.</li> <li>• Accelerometer improvements.</li> <li>• Minor changes</li> </ul>
<b>55.00.18.Rev.02</b> <b>1.6.11_R.23</b>	2021.05.13	<ul style="list-style-type: none"> <li>• No changes</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed issue which occurred during manufactory testing phase with Ver.55.00.18.Rev.01 where device could end with GNSS State = 0</li> </ul>

<b>55.00.18.Rev.01</b> <b>1.6.11_R.23</b>	2021.05.07	<ul style="list-style-type: none"> <li>• Increased Beacon List from 25 to 100</li> <li>• Added On Demand Tracking On/Off/Switch button action</li> <li>• Added On Demand Tracking event indication settings</li> <li>• Enabled vibration for Call Active indication.</li> </ul>	<ul style="list-style-type: none"> <li>• Increased Configured beacons count from 25 to 100</li> <li>• If Beacon record sending is configured to be 'Eventual', send only if device sees any beacons</li> <li>• Improved Power On/Off feature notifications</li> <li>• Power save mode is working with Data Acquisition time 60s and above</li> <li>• On Demand Tracking functionality improved with button control and On Demand Tracking event indication</li> <li>• ManDown functionality was improved with additional sensing methods. First one FreeFall sensing and other FreeFall with Angle combination</li> <li>• Mandown Cancel button functionality added</li> <li>• Fixed constant or uncontrolled Battery LED On state</li> <li>• Added configurable outgoing alarm tone sound</li> </ul>
<b>55.00.13.Rev.00</b> <b>1.6.11_R.18</b>	2021.01.14	<ul style="list-style-type: none"> <li>• Added GNSS Fix Holdout settings</li> <li>• Added Outgoing Call in loudspeaker settings</li> <li>• Added No movement pre-alarm indication settings</li> </ul>	<ul style="list-style-type: none"> <li>• Added Power off button disable feature.</li> <li>• Special function added: GPS search on hold for 30 seconds.</li> <li>• Fixed Power on/off event feature.</li> <li>• Changed Call logic between simultaneous alarms.</li> <li>• Fixed device Power on from USB, when feature is disabled.</li> <li>• Added possibility to update GNSS coordinate every 1sec.</li> <li>• Safe charging improvements.</li> <li>• Reworked On Demand Tracking.</li> <li>• Changed Call and SMS logic for Man-Down feature.</li> </ul>
<b>55.00.10.Rev.01</b> <b>1.6.11_R.16</b>	2020.11.13	<ul style="list-style-type: none"> <li>• Added Last Known Position feature settings</li> <li>• Added Power On/Off event settings</li> <li>• Added amber alert feature settings (for GH5200)</li> <li>• Added Amber alert indication (for GH5200)</li> <li>• Added Amber alert settings on a keyboard (for GH5200)</li> <li>• Added Power off with Power key settings</li> <li>• Added Custom BLE I/O parameters</li> <li>• Added Man-Down Event On Exit and On Entrance parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Added Amber Alert feature with configurable event Timeout and pre-alarm.</li> <li>• Improved ManDown, AutoGeofence, Alarm button and Amber Alert maximum call list to 10 numbers.</li> <li>• Changed outgoing call indication to vibration only.</li> <li>• Added Last Known Position feature on HIGH priority event (alarm, amber alert, man-down, etc.)</li> <li>• When GH5200 gains current GPS position after HIGH priority event was generated, device sends another HIGH priority event with updated position and GPS fix timestamp.</li> <li>• Added outgoing call in loudspeaker mode once the call is established.</li> <li>• Reworked GNSS status SMS template.</li> </ul>

<b>55.00.05.Rev.01</b> <b>1.5.0_C.007</b>	2020.03.06	<ul style="list-style-type: none"> <li>• Removed unnecessary Low Power parameters</li> <li>• Removed unnecessary Time Synchronization settings</li> <li>• Implemented On Demand tracking functionality</li> <li>• Removed unnecessary Number Check Settings panel</li> <li>• Implemented Event Notification functionality</li> <li>• Implemented User ID functionality</li> <li>• Improved BLE beacon functionality</li> <li>• Implemented Beacon List functionality</li> <li>• Improved User Interface configuration panel</li> <li>• Improved Keyboard configuration panel</li> <li>• Implemented Button IO feature</li> <li>• Updated default settings</li> </ul>	<ul style="list-style-type: none"> <li>• Reworked factory test tool.</li> </ul>
<b>55.00.05.Rev.00</b> <b>1.5.0_C.007</b>	2020.02.13	<ul style="list-style-type: none"> <li>• Removed unnecessary Low Power parameters</li> <li>• Removed unnecessary Time Synchronization settings</li> <li>• Implemented On Demand tracking functionality</li> <li>• Removed unnecessary Number Check Settings panel</li> <li>• Implemented Event Notification functionality</li> <li>• Implemented User ID functionality</li> <li>• Improved BLE beacon functionality</li> <li>• Implemented Beacon List functionality</li> <li>• Improved User Interface configuration panel</li> <li>• Improved Keyboard configuration panel</li> <li>• Implemented Button IO feature</li> <li>• Updated default settings</li> </ul>	<ul style="list-style-type: none"> <li>• Reworked User Interface configuration.</li> <li>• Reworked Keyboard configuration.</li> <li>• Implemented Event Notification panel.</li> <li>• Implemented Call After Answer functionality</li> <li>• Implemented User ID functionality.</li> <li>• Implemented On Demand data acquisition functionality.</li> <li>• Implemented Button IO Feature.</li> <li>• Optimized wake up from deep sleep by movement.</li> <li>• Updated default settings.</li> <li>• Improved BLE compatibility with beacons.</li> </ul>

## Stable Proximity firmware

<small>           FIRMWARE VERSION:            CONFIGURATOR VERSION:            RELEASE DATE:         </small>	<small>           STABLE PROXIMITY FIRMWARE            55.01.02.Rev.200            1.5.0_C.212            2021.11.15         </small>	<small>           DOWNLOAD  <a href="#">Firmware</a>  <a href="#">Configurator</a>  <a href="#">DOWNLOAD ALL</a> </small>
--	---	---

# PROXIMITY CHANGELOG

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
---------	--------------	----------------------	------------------

<b>55.01.02.R ev.200</b> <b>1.5.15_C.2</b> <b>32</b>	2021.11.15	<ul style="list-style-type: none"> <li>• Fixed In Use satellites not display issue</li> <li>• Add missing parameter IDs in tooltips</li> </ul>	<ul style="list-style-type: none"> <li>• Added XT26G01CWSIGT and GD5F1GQ5UE NAND flash support</li> <li>• The maximum battery charging temperature changed from 50°C to 45°C</li> <li>• Maximum operating temperature changed from 65°C to 59°C</li> <li>• Fixed Remote Connection indication.</li> <li>• SMS commands will return time with applied time zone</li> <li>• Fixed FW version display in FOTA WEB</li> <li>• Fixed SMS send and Call issue, when GPRS send period is set to 0 sec.</li> <li>• Changed minimum charging temperature from -10°C to 1°C</li> <li>• Fixed configuration saving error. Which was happening due FW version change</li> <li>• Increased BLE scan stability.</li> </ul>
--	------------	--	--

<b>VERSION</b>	<b>RELEASE DATE</b>	<b>CONFIGURATOR CHANGES</b>	<b>FIRMWARE CHANGES</b>
<b>55.00.08.Rev. 349</b> <b>1.5.15_C.228</b>	2021.05.07	<ul style="list-style-type: none"> <li>• Added configurable Proximity indication pause</li> <li>• Added option 'Advertise only' for proximity while charging</li> </ul>	<ul style="list-style-type: none"> <li>• Added configurable Proximity indication pause.</li> <li>• Changed default Scan Window and Scan Interval</li> <li>• Added option 'Advertise only' for proximity while charging</li> <li>• Corrections for data sending via RUTX</li> <li>• If Beacon record sending is configured to be 'Eventual', send only if device sees any beacons</li> </ul>
<b>55.00.08.Rev. 344</b> <b>1.5.15_C.225</b>	2021.01.14	<ul style="list-style-type: none"> <li>• Added Proximity Violator type iBeacon</li> </ul>	<ul style="list-style-type: none"> <li>• Improved proximity feature stability.</li> <li>• Reworked device connection with RUTX.</li> <li>• Improved proximity advertising scanning stability.</li> <li>• Safe charging improvements for GH5200.</li> <li>• Added feature which allows to use Beacons with proximity feature.</li> <li>• Fixed device Power on from USB, when feature is disabled.</li> <li>• Proximity improvements to support several devices at the same time.</li> </ul>
<b>55.00.08.Rev. 337</b> <b>1.5.15_C.222</b>	2020.10.23	<ul style="list-style-type: none"> <li>• Added Proximity with RUTX setting</li> <li>• Added Proximity RDDI exit threshold setting</li> <li>• Added Proximity RDDI moving average samples setting</li> </ul>	<ul style="list-style-type: none"> <li>• Improved RSSI level calculation logic, averaging according to configured sample size was implemented.</li> <li>• Added BLE advertising interval parameter.</li> <li>• Added duplicate scan filter to improve BLE performance.</li> </ul>

<b>55.00.08.Rev.</b> <b>335</b> <b>1.5.15_C.219</b>	2020.10. 09	• Added Teltonika beacons setting	<ul style="list-style-type: none"> <li>• Improved BLE power level parameters.</li> <li>• Added Proximity RSSI exit threshold parameter.</li> <li>• Added Proximity RSSI moving average parameter.</li> <li>• Reworked generation of Proximity records.</li> <li>• Changed Proximity record priority from Low to High.</li> <li>• Reworked Proximity record sending according to Data Acquisition.</li> </ul>
<b>55.00.08.Rev.</b> <b>334</b> <b>1.5.15_C.219</b>	2020.09. 28	• Added Teltonika beacons setting	<ul style="list-style-type: none"> <li>• Added new beacon detection option Teltonika (device only detects Teltonika devices).</li> <li>• Improved Proximity detection, works with Beacon Detection All and Beacon Detection Teltonika settings.</li> <li>• Improved Proximity contact duration calculation.</li> <li>• Improved Beacon detection stability.</li> </ul>
<b>55.00.08.Rev.</b> <b>332</b> <b>1.5.15_C.217</b>	2020.09. 28	• Added Home Zone on Exit on entrance settings	<ul style="list-style-type: none"> <li>• Improved Proximity record sending.</li> <li>• Reworked Home Zone on exit and on entrance event generation.</li> <li>• Improved Power Off event delay.</li> <li>• Corrected Power On/Off event logic.</li> <li>• Reworked Proximity SMS, IMEI is sent instead of BLE MAC</li> <li>• Proximity Service ID was removed.</li> </ul>