

GV500MA Firmware Release Notes

EGPRS/LTE Cat-M1/LTE Cat-NB1/GNSS Tracker

TRACGV500MARN0225



International Telematics Solutions Innovator

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0. Preamble

This Release Note introduces GV500MA firmware version **GV500MAR00A02V25M1024** and briefly describes the benefits over preceding release. Also you can find difference compared with preceding release.

1. Current Release

1.1. GV500MAR00A02V25M1024

1.1.1. @Track Protocol Support

GV500MA firmware **GV500MAR00A02V25M1024** supports @Track air interface protocol version 2.00. For detailed information about the protocol, please refer to the document GV500MA @Track Air Interface Protocol R2.00.

1.1.2. New Features

The following table lists new features compared with the preceding firmware release, version **GV500MAR00A01V50M1024**.

Item	Brief Description
1	Added the command AT+GTCRA to support crash detection.
2	Added the command AT+GTASC for the calibration of the accelerometer directions.
3	Added Type 1 to <Update Type> in AT+GTUPD to support MCU upgrade over the air.
4	Added Mode 4 to <LED On> in AT+GTCFG to support keeping both CELL LED and GNSS LED off all the time.
5	Added Mode 2 to <Mode> in AT+GTHBM to support harsh driving detection by motion sensor.
6	Added Mode 3 to <Mode> in AT+GTHBM to support harsh driving detection by motion sensor or GNSS.
7	Changed the value range of <Virtual Ignition On Mask> and <Virtual Ignition Off Mask> in AT+GTVMS to 01-03.
8	Changed the default value of <Event Mask> in AT+GTCFG to 3DEF.
9	Added the mechanism to allow the device to reboot if MODEM works abnormally.

1.1.3. Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV500MAR00A01V50M1024**.

Item	Brief Description
1	Fixed bug where the device reported the +RESP:GTFRI message every 5 seconds even if <IGF Report Interval> was less than 5 seconds when the <Mode> in AT+GTFRI was set to 2 or 3.
2	Fixed bug in which buffered messages were lost occasionally after rebooting the device.
3	Fixed bug where <Backup Battery Voltage> in +RESP:GTBPL message was not correct.
4	Fixed bug in which <GNSS Accuracy> was 0 while GNSS position changed.

5	Fixed bug where the device reported +RESP:GTVGN message again after reboot even though Bit 4 (state of ignition) of <i><Mask></i> in AT+GTPDS was set to 1.
6	Made modification so that the internal battery will not be charged when <i><Backup Battery Supply></i> in AT+GTCFG is set to 0.
7	Fixed bug where the device generated the +RESP:GTGES message incorrectly.
8	Fixed bug in which the device generated three +RESP:GTFRI messages in one second.
9	Fixed bug where the +RESP:GTVR message was reported instead of +RESP:GTBAT after executing AT+GTRTO Sub Command 9(BAT) when <i><Protocol Format></i> in AT+GTSRI was set 1 (HEX format).
10	Fixed bug where Protocol Watchdog didn't work according to <i><Interval></i> when the <i><Mode></i> in AT+GTDG was set to 1.
11	Fixed bug which caused the device to crash sometimes.
12	Fixed bug where the device stopped reporting messages when it was moving fast in NB-IoT network.
13	Fixed bug where the <i><Cell ID></i> in report messages didn't change after the device was registered on a new cell tower.
14	Fixed bug in which the GNSS-Assisted Motion Measurement (AT+GTGAM) function did not work as expected.
15	Fixed bug where no message was output to the main serial port after sending AT+GTRTO Sub Command 1(RTL) when <i><Output Direction></i> was set to 1.
16	Fixed bug in which <i><+RSP Mask></i> and <i><+EVT Mask></i> changed occasionally.
17	Fixed bug where the data usage became very high when <i><AGPS Mode></i> in AT+GTCFG was set to 2.
18	Fixed bug where the CELL LED didn't flash as described in GV500MA User Manual document.
19	Fixed bug where AT command sometimes could not be sent to the device through the main serial port.
20	Optimized the AT+GTUPC function.
21	Optimized the AT+GTUPD function when <i><Update Type></i> is 0 (BB firmware) and 7 (Modem firmware).
22	Optimized the logic for detecting virtual ignition status.
23	Optimized communication between the backend server and the device.
24	Fixed bug in which <i><Engine Off to Tow></i> and <i><Fake Tow Delay></i> in AT+GTTOW did not take effect after changing their settings.
25	Improved the FOTA upgrade functionality.
26	Fixed bug in which the battery voltage value in messages was incorrect.

2. Release History

2.1. GV500MAR00A01V50M1024

2.1.1. @Track Protocol Support

GV500MA firmware **GV500MAR00A01V50M1024** supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document GV500MA @Track Air Interface Protocol R1.00.

This is the initial firmware release of GV500MA.