GV350M Firmware Release Note (U-blox)

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

Firmware Version: R30A04V01

Document Title	GV350M Firmware Release Note
Firmware Version	GV350M_1713_R30A04V01
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0. Preface

This Release Note introduces the latest change of GV350M firmware and briefly describes the improvements over preceding versions. You can also find the whole history of all the changes of GV350M firmware in this document.

1. For Firmware Version R30A04V01

GV350M Firmware Version	GV350M_1713_R30A04V01
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol_V3.06
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.21
Problems Fixed	1. Resolved the issue that no GTCLT report to report if Debouce time set to 255 seconds.
New Features	N/A
Firmware Optimization	1. Optimized GTEPS/GTIDA/GTDIS/GTIOB report that the report will be sent immediately without 150s timeout delay when GPS interference happened. 2. Optimized GTCAN report 3. Optimized SMS command 4. Optimized location query command "get position" that lower case and upper case formats all are supported.

2. For Firmware Version R30A03V07

GV350M Firmware Version	GV350M_1713_R30A03V07
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol_V3.06
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.21
Problems Fixed	1. Fixed the bug that GTCLT report can't be triggered by doors signal 2. Fixed the bug that query location failed through sending SMS message "get position" if the SMS gateway number was wrong under "Force on SMS" mode
New Features	N/A
Firmware Optimization	1. Optimized the GTCAN report 2. Optimized the GTIDA report, changed the mileage from current mileage to total mileage

3. For Firmware Version R30A03V06

GV350M Firmware Version	GV350M_1713_R30A03V06
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol_V3.06
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.20
Problems Fixed	N/A
New Features	N/A
Firmware Optimization	1. Optimized DMS, improved user agent safety that the DMS link can't be downloaded through other ways or other devices except for Queclink devices. 2. Optimized GTCAN HEX report 3. Optimized the watchdog, it is enabled by default and device auto restarts at 02:00 every 7 days.

4. For Firmware Version R30A03V03

GV350M Firmware Version	GV350M_1713_R30A03V03
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol v3.05
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.19
Problems Fixed	N/A
New Features	1. Added ibutton feature
Firmware Optimization	1. Modified <Detailed Information/Indicators> / <Doors> / <Lights> in +RESP:GTCAN.

5. For Firmware Version R30A02V04

GV350M Firmware Version	GV350M_1713_R30A02V04
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol v3.02
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.16
Problems Fixed	When actively request PGN in J1939, it is easy to cause crash of device working.
New Features	N/A
Firmware Optimization	Due to the unstable function of active request PGN in J1939, it is easy to cause crash of device working. Therefore, remove the active request PGN function in this firmware version.

6. For Firmware Version R30A01V05

GV350M Firmware Version	GV350M_1713_R30A01V05
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol v3.02
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.16
Problems Fixed	1. When the length of UPC command cache is greater than 512, then error occurs. 2. When UPC upgrade files contain FVR and CMD commands, they will report errors. 3. After rebooting the device, the duration of the IGN/IGF message will be recounted. 4. Time updated error in DMR report after firmware upgrade by selecting "Upgrade firmware and Clear User Data". 5. Other exist bugs.
New Features	1. Replace MCU, and modify the MCU underlying driver. 2. Add DMS function. 3. Replace internal CAN100 with internal CAN (J1939). 4. Add Manual Registration function.
Firmware Optimization	Modify the bugs as aforementioned, add DMS function, Add Manual Registration function.

7. For Firmware Version R20A02V02

GV350M Firmware Version	GV350M_1713_R20A02V02
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol V2.01
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.13
Problems Fixed	1. UID option does not work in HBD message. 2. STP generates at the time when the speed is lower than the set value. 3. Sending the same GTHBM parameter setting command without generating ACK message. 4. EPS not enable, the power voltage in the BAT message is not empty. 5. Input triggers DOG Restart, the GTDIS failure message is not reported.
New Features	1. Add Working Mode 20 to output NMEA log.
Firmware Optimization	1. Solve the problem that UID option does not work in HBD message. 2. Solve the problem that STP generates at the time when the speed is lower than the set value. 3. Solve the problem of sending the same GTHBM parameter setting command without generating ACK message. 4. EPS not enable, the power voltage in the BAT message should be empty. 5. Solve the Input triggering DOG restart, the GTDIS failure message is not reported.

8. For Firmware Version R20A01V03

GV350M Firmware Version	GV350M_1713_R20A01V03
Applicable @Track Air Protocol Version	GV350M Series @Track Air Interface Protocol V1.03
Applicable Manage Tool Version	Queclink_GV350M_Manage_Tool_V1.12
Problems Fixed	1. Setting the SRI parameter and the report messages have the same count number under the STOP mode. 2. Generating +RESP:DOG messages when the internal battery is connected for more than 8 hours, and then to connect external power supply. 3. CRA hex report is incorrect. 4. The LED that it connects to Output1 will be always in light on status when the device is powered on.
New Features	1. Add product code (1713) in firmware version.
Firmware Optimization	1. To solve the problem of setting the SRI parameter and the report messages have the same count number under the STOP mode. 2. To solve the problem of generating +RESP:DOG messages when the internal battery is connected for more than 8 hours, and then to connect external power supply. 3. Debug: CRA hex report is incorrect. 4. Debug: The LED that it connects to Output1 will be always in light on status when the device is powered on.