GV57MGV2(Plus) Firmware Release Notes

EGPRS/LTE Cat-M1/LTE Cat-NB2/GNSS Tracker

TRACGV57MGV2RN0520



Driving Smarter IoT

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1. Preamble

This document introduces GV57MGV2(Plus) firmware version **GV57MGV2R00A05V20M512** and briefly describes new features and improved features. From this document, you can find the differences between the current and the preceding releases.

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2. Current Release

2.1. GV57MGV2R00A05V20M512

2.1.1.GV57MGV2(Plus)@Track Protocol Support

The GV57MGV2(Plus) firmware **GV57MGV2R00A05V20M512** supports @Track air interface protocol version 5.02. For detailed information about the protocol, please refer to the document GV57MGV2(Plus) @Track Air Interface Protocol V5.02.

2.1.2.MCU Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A05V20M512** should work with the MCU firmware **GV57MGV2_McuR12V5.05.** If an upgrade error occurs or the match with another version of the GV57MGV2(Plus) firmware is required, please contact fae@queclink.com. We can't guarantee that the version mismatch of the GV57MGV2 firmware and the MCU firmware could work well.

2.1.3.Modem Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A05V20M512** can work with the modem firmware 2.32 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0232). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

2.1.4.New Features

New features are listed in the following table, compared with the preceding firmware release (version **GV57MGV2R00A04V10M512**)

Item	Brief Description
1	Added mode 4 for <*Keyfob Detection Mode*> to **AT+GTBID**.
2	Changed value range of <*WID3X0 IGN Scan/Report Interval*> and <*WID3X0 IGF Scan/Report Interval*> in **AT+GTBID** from 0|10 - 86400(s) to 0|30 - 86400(s).
3	Added Bit30, Bit31 for <*Input ID Mask*> to **AT+GTUDF**.
4	Supported CAN100BLE.
5	Added Bit 42 and Bit 43 for <*Input ID Mask*> to **AT+GTUDF**.
6	Added mode 4 and mode 5 to <*Command Type*> in **AT+GTDAT**.
7	Added <*Long Operation1*> parameter in **AT+GTOUT** command.
8	Changed the range of <*GNSS Accuracy*> in the event message type.

2.1.5.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A04V10M512**)

Item	Brief Description
1	Fixed an issue that the device reported **+RESP:GTGIN** message when the GNSS point was outside geofence. .
2	Optimized GNSS positioning function.
3	Optimized logic of <*Keyfob Detection Mode*> 3 for WID300/WID310 in **AT+GTBID**.
4	Optimized the message reporting function.

1.1.1.Features Related Firmware Versions

The following table lists whether the new MCU version **GV57MGV2_McuR12V4.03** and the new Modem firmware version V2.31 need to be upgraded for different features.

Item	MCU	Modem	Note
New Features 1, 2, 4, 6, 7	Yes	N/A	Upgrade BB first, then upgrade MCU, at last upgrade Modem.
Improved Features 3	Yes	N/A	
Improved Features 4	N/A	Yes	

3. Release History

3.1. GV57MGV2R00A04V10M512

3.1.1.GV57MGV2(Plus)@Track Protocol Support

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V10M512** supports @Track air interface protocol version 4.00. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air Interface Protocol V4.00.

3.1.2.MCU Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V10M512** should work with the MCU firmware **GV57MGV2_McuR12V4.03.** If an upgrade error occurs or the match with another

version of the GV57MGV2(Plus) firmware is required, please contact fae@queclink.com. We can't guarantee that the version mismatch of the GV57MGV2(Plus) firmware and the MCU firmware could work well.

3.1.3.Modem Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V10M512** can work with the modem firmware 2.31 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0231). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

3.1.4.New Features

New features are listed in the following table, compared with the preceding firmware release (version **GV57MGV2R00A04V06M512**)

Item	Brief Description
1	N/A

3.1.5.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A04V06M512**)

Item	Brief Description
1	Fixed an issue that the internal battery couldnot be charged.
2	Optimized the stability of the device.

1.1.2.Features Related Firmware Versions

The following table lists whether the new MCU version **GV57MGV2_McuR12V4.03** and the new Modem firmware version V2.31 need to be upgraded for different features.

Item	MCU	Modem	Note
Improved Features 1	Yes	N/A	Upgrade BB first, then upgrade MCU, at last upgrade Modem.
Improved Features 2	N/A	Yes	

3.2. GV57MGV2R00A04V06M512

3.2.1.GV57MGV2(Plus)@Track Protocol Support

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V06M512** supports @Track air interface protocol version 4.00. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air Interface Protocol V4.00.

3.2.2.Modem Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V06M512** can work with the modem firmware 2.28 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0228). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

3.2.3.New Features

New features are listed in the following table, compared with the preceding firmware release (version **GV57MGV2R00A04V05M512**)

Item	Brief Description
1	Optimized hardware version detection logic.

3.2.4.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A04V05M512**)

Item	Brief Description
1	N/A

3.3. GV57MGV2R00A04V05M512

3.3.1.GV57MGV2(Plus)@Track Protocol Support

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V05M512** supports @Track air interface protocol version 4.00. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air Interface Protocol V4.00.

3.3.2.Modem Firmware Version

The GV57MGV2(Plus) firmware **GV57MGV2R00A04V05M512** can work with the modem firmware 2.28 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0228). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

3.3.3.New Features

New features are listed in the following table, compared with the preceding firmware release (version **GV57MGV2R00A03V05M512**)

Item	Brief Description
1	Removed the BLE accessories limitation in **AT+GTBAS.**
2	Merged GV57MGV2 and GV57MG Plus.

3.3.4.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A03V05M512**)

Item	Brief Description
1	Fixed an issue where the type=0 command of AT+ GTDAT would cause device crash.

3.4. GV57MGV2R00A03V05M512

3.4.1.GV57MGV2@Track Protocol Support

The GV57MGV2 firmware **GV57MGV2R00A03V05M512** supports @Track air interface protocol version 3.02. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air Interface Protocol V3.02.

3.4.2.Modem Firmware Version

The GV57MGV2 firmware **GV57MGV2R00A03V05M512** can work with the modem firmware 2.28 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0228). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

3.4.3.New Features

New features are listed in the following table, compared with the preceding firmware

release (version **GV57MGV2R00A02V08M512**)

Item	Brief Description
1	Added the <*DNS Lookup Interval*> parameter to **AT+GTSRI** and **AT+GTQSS**.
2	Added the command **AT+GTPEO**.
3	Added the <*Push Button Event*> parameter to the **AT+GTBID** command.
4	Added the <*Battery Level*> parameter to all **EVT** message in **HEX**.
5	Added the command **AT+GTRTO-5**.
6	Changed the value range of <*MPN/MPF Validity Time*> in **AT+GTEPS** from 0-20sec to 0-255sec.

3.4.4.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A02V08M512**)

Item	Brief Description
1	Optimized CRA-related functions.
2	Optimized the charging function.
3	Fixed an issue that the input ID6 cannot trigger the DOG reboot.

3.5. GV57MGV2R00A02V08M512

3.5.1.GV57MGV2@Track Protocol Support

The GV57MGV2 firmware **GV57MGV2R00A02V08M512** supports @Track air interface protocol version 2.00. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air Interface Protocol V2.00.

3.5.2.Modem Firmware Version

The GV57MGV2 firmware **GV57MGV2R00A02V08M512** can work with the modem firmware 2.25 if required (i.e. <*Modem Firmware Version*> reported in the **+RESP:GTATI** message queried by sub command **0x1C** of the command **AT+GTRTO** is 0225). Please choose the proper modem OTA bin according to the current <*Modem Firmware Version*> in the **+RESP:GTATI** message.

3.5.3.New Features

New features are listed in the following table, compared with the preceding firmware release (version **GV57MGV2R00A01V08M512**)

Item	Brief Description

1	Modified the parameter range of <*Ignition on Voltage*> in the **AT+GTVVS** command.

3.5.4.Improved Features

Features or parameters that have been changed or improved are listed in the following table, compared with preceding firmware release (version **GV57MGV2R00A01V08M512**)

Item	Brief Description
1	Optimized BLE-related functions.
2	Fixed an issue that the device would stop reporting.
3	Fixed an issue that the zero value of <*Time to Stop*> and <*Time to Start*> in the **AT+GTSSR** command was wrong.
3	Fixed an issue that the device was in motion and could not trigger ignition on when the <*Mode*> in **AT+GTVMS** was set to 4.
4	Fixed an issue that the device would report message **+RESP:GTBPL** and power off when the value of <*Backup Battery Charge Mode*> in command **AT+GTCFG** was set to 0.
5	Fixed an issue that the value of <*GNSS Accuracy*> in message **+RESP:GTFRI** was not 0 when the GNSS failed to be fixed.
6	Fixed an issue that the **+RESP:GTDIS** message would be reported incorrectly in some cases when the <*Enable*> in **AT+GTIGM** was set to 1.
7	Fixed an issue that the value of <*Backup Battery Percentage*> in the message **+RESP:GTFRI** was maintained at 100 when the battery voltage dropped.
8	Fixed an issue that the device would not register on network if setting <*APN User Name*> and <*APN Password*> in **AT+GTBSI** command.
9	Fixed an issue that the message **+ACK:GTHBD** was not reported according to the <*Heartbeat Interval*> in **AT+GTSRI** command in some cases.
10	Fixed an issue that the final status of Output1 was off in some cases if setting <*Output1 Status*> to 2 and **AT+GTGDO** command accordingly.
11	Fixed an issue that the maximum value range of <*Hour Offset*> in command **AT+GTTMA** was inconsistent with the protocol definition.
12	Fixed an issue that the default values of some parameters in **AT+GTRMD** command and **AT+GTOUT** command were inconsistent with the default values defined by the protocol.

3.6. GV57MGV2R00A01V08M512

3.6.1.GV57MGV2@Track Protocol Support

The GV57MGV2 firmware **GV57MGV2R00A01V08M512** is initial firmware release of the GV57MGV2, which supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document GV57MGV2 @Track Air

Interface Protocol V1.00.

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