

GV57CEU Firmware Release Notes

GSM/GPRS/GNSS Tracker

TRACGV57CEURNR01A06V15

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1 Preamble

This Release Note introduces GV57CEU firmware version **GV57CEUR01A06V15M128** and briefly describes the benefits over preceding release. Also you can find difference compared with preceding release.

Note

To upgrade the firmware from A01/A02/A03 to this version over the air, please upgrade it to A04V16 first and then to this version.

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2 Current Release

2.1 GV57CEUR01A06V15M128

2.1.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A06V15M128** supports @Track air interface protocol version 6.02. For detailed information about the protocol, please refer to the document **GV57CEU@Track_Air_Interface_Protocol_v0602**.

2.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A05V17M128**.

Item	Brief Description
1	Added +RESP:GTBIE message for all Bluetooth accessories supported by the BID command.
2	Deleted the parameter <Read Interval> from the command AT+GTBAS.
3	Added value 4 and 5 to <Output Direction> in the command AT+GTRTO.
4	Added the commands AT+GTIDA and AT+GTDAT.
5	Added mode 7 to <Beacon ID Model> in the command AT+GTBID.
6	Added Enhanced <Satellite in Use> to <+RSP Expansion Mask> and <+EVT Expansion Mask> in the command AT+GTHRM.
7	Added command AT+GTBFS.
8	Deleted the parameters <NAME> and <UUID> from the command AT+GTBID.

2.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A05V17M128**.

Item	Brief Description
1	Fixed an issue where the value of total working time reported in the HEX format messages after RTO-3 reboot was out of the specified range.
2	Optimized the logic of parameter <Cell Report> in the AT+GTCFG command to reduce current consumption.

Item	Brief Description
3	Fixed an issue where the <Backup Battery On> reported in the HEX format +RESP:GTINF message was incorrect when the device was not connected to the internal battery.
4	Fixed an issue where the message +RESP:GTGIN would be reported when only the <Output ID> of AT+GTPEO was modified.
5	Fixed an issue where the device could report two identical +RESP:GTDIS messages after DOG reboot triggered by the digital input.
6	Fixed an issue where the <Current Hour Meter Count> reported in the HEX format +RESP:GTIGN message was not reset after the ignition was turned off for a while and then being turned on.
7	Fixed an issue where the device could report GTDIS messages when the <Pin Mask> in AT+GTCFG was enabled and AT+GTDIS function was enabled.
8	Fixed an issue where the device would still report +RESP:GTMPN message after reboot if <Mode> was set to 1 and Bit9 of <Mask> was selected in the AT+GTPDS command.
9	Fixed an issue where an ELA accessory (LITE ID) of type Eddystone could not be scanned.
10	Fixed an issue where the time of reporting +RESP:GTSTP/+RESP:GTLSP messages after device reboot was inconsistent with the setting if the SSR state was saved by GTPDS.
11	Fixed an issue where the <Accessory Status> reported in the +RESP:GTBAA/+RESP:GTERI messages was inconsistent when the device disconnected from the Bluetooth accessory after enabling the CAN simulation.
12	Fixed an issue where the queried result was not error after sending an incorrect command.
13	Fixed an issue where the device was not connected to the battery but the <Backup Battery Charge State> reported in +RESP:GTDMMR was FF.
14	Fixed an issue where the <Send Time> reported in +RESP:GTPNR/+RESP:GTPNA messages did not include the time zone information set by the AT+GTTMA command.
15	Fixed an issue that caused the device to reboot abnormally when sending a misspelled "Get Posion" to the device.
16	Fixed an issue where the device did not report +RESP:GTSTC message after reboot if the device was charging in ignition on state and the parameter <Power Mode> in AT+GTCFG was set to 1.
17	Fixed an issue where the output remained active even after resetting the AT+GTPEO parameters using AT+GTRTO-4.
18	Fixed an issue where the WRL300 did not output after pressing the button WKF300ENC to make the WRL300 light on.

Item	Brief Description
19	Fixed an issue where the device could be connected again without entering the PIN code after changing the PIN code.
20	Optimized the protocol watchdog function.
21	Fixed an issue where the APN and Backup APN set in the AT+GTBSI command were cleared when they were empty.
22	Optimized sensor motion detection logic to improve sensitivity.
23	Fixed an issue where the serial port was continuously printing CELL LOGs.
24	Optimized the time required for low battery detection.
25	Fixed an issue where turning on the digital output inversion feature ended up with the wrong state.
26	Fixed an issue where UDF was triggered repeatedly due to successful localization.
27	Fixed an issue where the <RX Level> reported in +RESP:GTGSM messages was always 99 when the <Cell Report> was enabled in the AT+GTCFG command.
28	Fixed an issue where <GNSS Accuracy> was always 0 in +RESP:GTCAN messages.
29	Fixed an issue where the <Frame Number> reported in the +RESP:GTCRD message was greater than the <Total Frame>.
30	Fixed an issue where the readback value was 0 after the <+RSP Mask> checkbox extend mask related bit was set to 1 in the AT+GTHRM command.
31	Fixed an issue where the device would not report the +RESP:GTVGF message after resetting VMS configuration when in the virtual ignition on state.
32	Fixed an issue where the device might enter a dump state after sending commands while the device was powered on.
33	Optimized FOTA upgrade logic to ensure successful loading of rd.bin after successful upgrade.
34	Fixed an issue where the SIM card could not register on the network.
35	Fixed an issue where the MAC address reported in the +RESP:GTBAA message triggered by ID ELA was incorrect after WKF300, WID310 and ID ELA were configured at the same time.
36	Fixed an issue where the ignition could not be turned off if the condition was met when switching Virtual Ignition Flag after entering virtual ignition on state.
37	Fixed an issue where the modified output ID during the TOW triggering process did not take effect after the vehicle was stationary with engine off.
38	Fixed an issue where the device's IDA function showed some incorrect behavior in states 41 and 42 when AT+GTVMS mode was set to 1.
39	Fixed an issue where the device did not report +RESP:GTBID message in state 42 when AT+GTVMS mode was set to 1.

Item	Brief Description
40	Fixed an issue where the external power voltage reported in the messages was incorrect when the backup battery was connected but the external power was disconnected.

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3 Release History

3.1 GV57CEUR01A05V17M128

3.1.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A05V17M128** supports @Track air interface protocol version 5.03. For detailed information about the protocol, please refer to the document **GV57CEU@Track_Air_Interface_Protocol_v0503**.

3.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A04V18M128**.

Item	Brief Description
1	Added Accessory Type 16 and Accessory Model 0 to the command AT+GTBAS to support WKF300ENC.
2	Added the parameter <Broadcast Type> to the +RESP:GTBAA message.
3	Supported Azure IoT Hub in the AT+GTMQT command.
4	Added value F3 to <Sub Command> in AT+GTRTO.
5	Added parameters <UUID>/<NAME> and modes 2/3 to the command AT+GTBID.
6	Added parameter <Electric Report Mask> to the command AT+GTCAN.

3.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A04V18M128**.

Item	Brief Description
1	Fixed an issue where the values of 3-axis might be 0 in message +RESP:GTACC.
2	Fixed an issue where the device kept rebooting after failing to update the device configuration and reporting +RESP:GTUPC-302.
3	Fixed an issue where the device could not parse commands sent via SMS that contained Chinese text fields.
4	Fixed an issue where AT+GTCMD could not be executed when it contained multiple AT commands.

Item	Brief Description
5	Fixed an issue where the device might stop reporting +RESP:GTFRI messages.
6	Fixed an issue where a +RESP:GTSTR message was reported after reboot when PDS was enabled and the device was motionless with ignition on.
7	Fixed an issue where SMS sub-packets were transmitted in the wrong order.
8	Fixed an issue where the reported message +RESP:GTFRI was incorrect when the command AT+GTOWH was enabled and the parameter <Position Append Mask> in command AT+GTCFG was enabled.
9	Fixed an issue where the device reported HEX-formatted messages to cell phone via SMS.
10	Fixed an issue where the device could report the +RESP:GTACJ-02 message after ignition on when the <Trigger Input Timeout> was not reached if the Hijack button was pressed once while the ignition was off.
11	Fixed an issue where the messages were not reported if it failed to connect to the TLS server.
12	Fixed an issue where the <Backup Battery Charge State> was not contained in the +RESP:GTDMMR message.
13	Fixed an issue where the device took a long time to report messages after upgrading firmware with erasing parameters.
14	Fixed an issue where the device would not be able to access the Internet after upgrading the device firmware.
15	Fixed an issue where the calibrated voltage could not be updated again when the voltage was adjusted higher after a successful calibration.
16	Fixed an issue where the parameter <Main Power Voltage> in the HEX format GTDMMR message was incorrect when the device was not connected to the external power.
17	Improved the accuracy of send time of the report +RESP:GTFRI.
18	Fixed an issue where the <Current Mileage> was reported incorrectly in the HEX format messages.
19	Fixed an issue where the <Report Mode> was invalid when <Mode> was not set to 5 in the command AT+GTHBM.
20	Fixed an issue where there was no cell information in the HEX message after reboot.

3.2 GV57CEUR01A04V18M128

3.2.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A04V18M128** supports @Track air interface protocol version 4.02. For detailed information about the protocol, please refer to the document **GV57CEU@Track_Air_Interface_Protocol_v0402**.

3.2.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A04V16M128**.

Item	Brief Description
1	N/A

3.2.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A04V16M128**.

Item	Brief Description
1	Fixed an issue where only HBD messages were reported after the certificate was imported when the TLS server was enabled but the <SACK Mode> in AT+GTSRI command was disabled.
2	Improved production efficiency.

3.3 GV57CEUR01A04V16M128

3.3.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A04V16M128** supports @Track air interface protocol version 4.02. For detailed information about the protocol, please refer to the document **GV57CEU@Track_Air_Interface_Protocol_v0402**.

3.3.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A03V10M128**.

Item	Brief Description
1	Added support for outputting SMS content to the serial port.
2	Added the parameters <Message Type> and <Expand OUI Numbers> to the command AT+GTBID .
3	Added model 3 to the parameter <Beacon ID Model> in the command AT+GTBID .
4	Added mode 14 to the parameter <GNSS Working Mode> in the command AT+GTCFG .
5	Added mode 2 to the parameter <AGPS Mode> in the command AT+GTCFG .
6	Added parameters <Report ACC Mode>, <Speed Confirmation>, <ODO Confirmation>, <Confirmation Time>, <Fall Degrees> and <Extended Status Report> to the AT+GTCRA command.
7	Added mode 3 to the parameter <Mode> in the command AT+GTCRA .
8	Added the messages +RESP:GTACC and +RESP:GTECR .

3.3.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A03V10M128**.

Item	Brief Description
1	Fixed an issue where the number of buffered messages displayed on the QMS side was incorrect.
2	Fixed an issue where the parameter <Crash Counter> was always 00 in the HEX-formatted message +RESP:GTCRA .
3	Fixed an issue where the message +RESP:GTDIS was not reported when changing the input status during the device reboot after the input status pre-reboot was saved by AT+GTPDS .
4	Fixed an issue where the <Message Type> of the HEX-formatted message +RESP:GTDRM was changed to 103.
5	Fixed an issue where the message +RESP:GTUPC-305 was reported after an upgrade failure message +RESP:GTUPC-302 .
6	Fixed an issue where +RESP:GTACJ-03 was reported before +RESP:GTACJ-02 in ignition on state when the Hijack button was kept pressed and <Hijack Trigger Mode> in AT+GTACJ was set to 1.
7	Fixed an issue where the serial number of buffered messages could start from 0 after device reboot.

Item	Brief Description
8	Fixed an issue where the +RESP:GTCAN message was not reported after reboot if the device was disconnected from the power supply.
9	Fixed an issue where +RESP:GTHBM was incorrectly reported when the device failed to locate and the speed was below the set threshold.
10	Adjusted the log file storage size to 1MB.
11	Fixed an issue where the device rebooted abnormally when dialing frequently.
12	Fixed an issue where the +RESP:GTTOW message was reported in motion status after reboot when the distance was not met.
13	Fixed an issue where the <GNSS Trigger Type> reported in the first +RESP:GTFRI message was incorrect after the <Mode> in AT+GTFRI was changed.
14	Fixed an issue where the Bluetooth information was not displayed in the message +RESP:GTINF .

3.4 GV57CEUR01A03V10M128

3.4.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A03V10M128** supports @Track air interface protocol version 3.03. For detailed information about the protocol, please refer to the document **GV57CEU@Track_Air_Interface_Protocol_v0303**.

3.4.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A02V15M128**.

Item	Brief Description
1	Added the parameter <Validity Time> to the command AT+GTDIS .
2	Added the parameter <Format Version> to the command AT+GTRTO .
3	Added the parameter <ID Report Format> to the message +RESP:GTGOT/+RESP:GTGIN .
4	Added mode 2 and 3 to parameter <Power Mode> in AT+GTCFG .
5	Added parameters <Behaviour Duration>, <Discard Unknown Events>, <Cornering and Braking Threshold>, <Cornering and Braking Duration>, <Acceleration Threshold>, <Acceleration Duration>, <Brake Threshold>, <Brake Duration> and <Report Mode> to the AT+GTHBM command.
6	Deleted the parameters <Brake Speed Threshold>, <Delta Speed Threshold> and <Delta Heading Threshold> from the command AT+GTASC .

Item	Brief Description
7	Added the parameter <Report Mode> to the command AT+GTASC .
8	Added the parameters <Scan Interval> and <Scan Window> to the command AT+GTBTS .

3.4.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A02V15M128**.

Item	Brief Description
1	Fixed an issue where the reported <CANBUS Report Mask> in ASCII format message +RESP:GTCAN was incorrect.
2	Fixed an issue where only the latest output was triggered when multiple IDs were set in AT+GTCLT
3	Fixed an issue where the <Digital Output Status> reported in message +RESP:GTCLT and +RESP:GTDOS was inconsistent.
4	Fixed an issue where the <Network Type> in +RESP:GTINF was displayed incorrectly when the SIM card was removed.
5	Fixed an issue where the IMEI reported in the message +RESP:GTATI was incorrect.
6	Fixed an issue where the message sequence number of +RESP:GTDMMR messages was lost during device DOG or other reboot processes.
7	Fixed an issue where the parameter <CANBUS Device State> in the +RESP:GTCAN message changed to 0 after the device was connected to CAN for a period of time.
8	Fixed an issue where the server was unable to parse +RESP:GTBAA and +RESP:GTERI messages when Bluetooth information exceeded the expand mask.
9	Fixed an issue where Bluetooth did not scan when the device was working properly.
10	Fixed an issue where the backup battery voltage in HEX format report could be 0 when the backup battery was not connected.
11	Fixed an issue where the <Power On Reason> reported in the message +RESP:GTPNR was not 6 after the device was rebooted with +RESP:GTUPC-301 .
12	Fixed an issue where the <GNSS Trigger Point> would not be influenced by AT+GTOWH when AT+GTOWH was enabled.
13	Fixed an issue where parameter <Command ID> empty when reporting +RESP:GTUPC-306 or +RESP:GTUPC-302 message.
14	Fixed an issue where the +RESP:GTINF message parameters <Network Type> and <INF Expansion Mask> didn't match.
15	Fixed the issue where the device with a short TCP connection would immediately switch to the primary server if it was in a normal backup server connection state.

Item	Brief Description
16	Fixed an issue where the commands with double % in the header sent by SMS channel could not be parsed correctly.
17	Optimized the ability to use the default DNS Server to resolve addresses when the DNS Server address was set to 255.X.X.X.
18	Fixed an issue where the parameters <Total Engine Hours>, <Total Driving Time> and <Total Engine Idle Time> reported in message +RESP:GTCAN were inconsistent with the protocol.
19	Optimized execution time for UPC upgrade configuration.
20	Optimized to report the +RESP:GTVGN and +RESP:GTVGF messages just based on the result of the voltage.
21	Fixed an issue where the message +RESP:GTCFU-104 could be reported during stress upgrade process of Bluetooth version CAN3.X.
22	Fixed an issue where the device did not work as expected if the voltage was changed within the error voltage set by <Voltage Margin Error> in AT+GTEPS after alarm was triggered.
23	Fixed an issue where the output light did not work as expected after reboot if the device was in the hijacked state.
24	Optimized compatibility with the hardware without zero-consumption feature.
25	Forbidden to update BLE firmware over the air if the BLE BOOT version is 1.01.
26	Fixed an issue where the <Message Type> of GTDRM message was incorrect.

3.5 GV57CEUR01A02V15M128

3.5.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A02V15M128** supports @Track air interface protocol version 2.02. For detailed information about the protocol, please refer to the document **GV57CEU @Track Air Interface Protocol V2.02**.

3.5.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV57CEUR01A01V27M128**.

Item	Brief Description
1	Added the command AT+GTMQT .
2	Added the command AT+GTTLS .
3	Added the command AT+GTRTP .

Item	Brief Description
4	Added the command AT+GTLTP .
5	Added mode 9 to the parameter <Report Mode> in the command AT+GTSRI .
6	Added the parameters <RAT> and <Band> to the message +RESP:GTERI .
7	Added the parameter <INF Expansion2 Mask> to the command AT+GTHRM .
8	Added the parameter <Network Type> to the message +RESP:GTINF .
9	Added Bit 36 <Network jamming is detected>, Bit 37 <Network jamming is not detected>, Bit 51 <The device fixes GNSS successfully> and Bit 52 <The device fails to fix GNSS> to <Input ID Mask> in AT+GTUDF .
10	Modified the range of <Min Threshold> and <Max Threshold> to 0 - 90000 mV in the command AT+GTEPS .
11	Added model 4 to parameter <Beacon ID Model> in the command AT+GTBID .
12	Added Accessory Type 6 and Accessory Model 4 to the command AT+GTBAS to support the WMS301.
13	Added Accessory Type 12 and Accessory Model 0 to the command AT+GTBAS to support the MLD BLE TPMS.
14	Added Accessory Type 13 and Accessory Model 0 to the command AT+GTBAS to support the Relay accessory
15	Added Sub Command 3A (RLY) to the AT+GTRTO command.
16	Added Accessory Type 6 and Accessory Model 5 to the command AT+GTBAS to support the WTH301.
17	Removed WTH300 from the command AT+GTBAS .

3.5.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV57CEUR01A01V27M128**.

Item	Brief Description
1	Fixed an issue where the message +RESP:GTUPD with code 341 could not be reported to the QMS server after BLE firmware was successfully upgraded.
2	Fixed an issue where activating the AT+GTACJ function would trigger other digital input functions.
3	Fixed an issue where switching the parameter <Pin Mode> of AT+GTCFG would result in incorrect reporting of +RESP:GTDIS messages.
4	Fixed an issue where it failed to upgrade Bluetooth firmware version by AT+GTCFU .
5	Fixed an issue where CAN communication was abnormal after CAN upgrade failed.
6	Fixed an issue with abnormal Bluetooth scanning.
7	Fixed an issue where AT+GTCLT was unable to trigger output for the first time.

Item	Brief Description
8	Fixed an issue where abnormal +RESP:GTPDP messages would be reported when <Report Mode> in AT+GTSRI was set to 8.
9	Fixed an issue with WTH301 supporting name scanning.
10	Fixed an issue where the range of parameter <INF Expansion Mask> in AT+GTHRM was inconsistent with the protocol.

3.6 GV57CEUR01A01V27M128

3.6.1 @Track Protocol Support

GV57CEU firmware **GV57CEUR01A01V27M128** supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document **GV57CEU @Track Air Interface Protocol V1.00**.

This is the initial firmware release of GV57CEU.