GV305CEU Firmware Release Notes

GSM/GPRS/LTE CAT1/GNSS Tracker

TRACGV305CEURNR01A08V16

Version: 1.8.16



Driving Smarter IoT

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1 Preamble

This Release Note introduces GV305CEU firmware version **GV305CEUR01A08V16M128** and briefly describes the benefits over preceding release. Also you can find difference compared with preceding release.

Note

- **1** - Firmware versions A01/A02 cannot be upgraded directly to A05 over-the-air, please upgrade version A01/A02 to A03/A04 first and then from version A03/A04 to A05.
- **2** - Firmware versions earlier than A05V12 cannot be upgraded directly to A05V16 or higher versions over-the-air, please upgrade to A05V12 first and then from version A05V12 to a higher version.

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2 Current Release

2.1 GV305CEUR01A08V16M128

2.1.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A08V16M128** supports @Track air interface protocol version 8.03. For detailed information about the protocol, please refer to the document **GV305CEU@Track_Air_Interface_Protocol_v0803**.

2.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A07V09M128**.

Item	Brief Description
1	Added %IMEI% to the parameter <Subscribe/Publish Topic> in the command AT+GTMQT.
2	Added the function of device status inquiry through SMS.
3	Added the parameter <Mileage> to the message +RESP:GTDTT Long Format.
4	Added the command AT+GTTPM, and added mode 41 to the command AT+GTURT.
5	Added parameter <GNSS off Latency> to the command AT+GTCFG.
6	Added mode 14 to the command AT+GTURT.
7	Added model 4 to parameter <RS485 Device Model> in the AT+GTRAS command, and added parameter <RS485 Device Mask> to the AT+GTRAS command.

2.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A07V09M128**.

Item	Brief Description
1	Optimized UPC upgrade logic.
2	Fixed an issue where the device did not report in the order of IGN-CAN-STR-ERI-ERI-STP-CAN-IGF before and after ignition.
3	Optimized message storage and reporting logic.

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Item	Brief Description
4	Fixed an issue where the format of +ACK:GTSRI message was incorrect after switching the protocol format.
5	Optimized the self-calibration strategy for obtaining steady-state values by incorporating external power detection.
6	Optimized QMS features.
7	Fixed an issue where the 1-wire timer was not working.
8	Fixed an issue where the device did not report messages as expected after reboot if <Buffer Mode> was set to 2.
9	Fixed an issue where the calibration factors were inconsistent between the HEX format GTASC and GTSCS messages.
10	Optimized battery charging logic.
11	Fixed an issue where the device reported messages based on the remaining time of the Report Interval set before reboot after restarting.
12	Fixed an issue where the parameters of AT+GTPEG command were lost after FOTA upgrade.
13	Fixed an issue where the device reported +RESP:GTCRA message immediately after re-ignition on.
14	Fixed an issue where the device did not report sensor sampling data after ignition off.
15	Fixed an issue where the device reported an incorrect value in the HEX format message prior to successfully acquiring temperature data from the WID320G sensor.
16	Fixed an issue where the buzzer still sounded when the device exited the overspeed alarm.
17	Fixed an issue where some SIM cards might cause inaccurate reporting of CS values.
18	Fixed an issue of UDF triggering errors caused by replacing the SIM card.
19	Fixed an issue where data could not be read after switching the baud rate in the AT+GTURT command.
20	Fixed an issue where the reporting intervals of the +RESP:GTFRI and +RESP:GTUDT messages were incorrect after rebooting with ignition off.
21	Fixed an issue where the <Total Distance> rollbacked in the +RESP:GTCAN message after device reboot.
22	Fixed an issue where multi-point reporting was triggered when the device switched from state 42 to 41.

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3 Release History

3.1 GV305CEUR01A07V09M128

3.1.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A07V09M128** supports @Track air interface protocol version 7.02. For detailed information about the protocol, please refer to the document **GV305CEU@Track_Air_Interface_Protocol_v0702**.

3.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A06V10M128**.

Item	Brief Description
1	Added the parameter <PDP Type> to the AT+GTBSI command to support IPV6 function.
2	Added the command AT+GTCNA, and added mode 43 to the command AT+GTURT.
3	Added type 3 to parameter <ID Report Type> in the message +RESP:GTIDA.
4	Added Enhanced <Satellite in Use> to <+RSP Expansion Mask> and <+EVT Expansion Mask> in the AT+GTHRM command.

3.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A06V10M128**.

Item	Brief Description
1	Deleted the parameter <Read Interval> from the command AT+GTBAS.
2	Optimized the GTDOG function to enable the device to reboot the RF to check if the network is restored before triggering the GTDOG reboot.
3	Optimized the Jamming Detection function.
4	Fixed an issue where the device was connected to WID320 but the message showed that it was not connected.
5	Modified the format of <RS485 Device ID> in the +RESP:GTERI message.

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Item	Brief Description
6	Fixed an issue where the APN and Backup APN set in the AT+GTBSI command were cleared when they were empty.
7	Modified the value range of parameter <GNSS Satellite Number>.
8	Optimized FOTA upgrade logic.
9	Fixed an issue where the device could not be registered through automatic network mode using some SIM cards.
10	Optimized the sensor function.

3.2 GV305CEUR01A06V10M128

3.2.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A06V10M128** supports @Track air interface protocol version 6.01. For detailed information about the protocol, please refer to the document **GV305CEU@Track_Air_Interface_Protocol_v0601**.

3.2.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A05V16M128**.

Item	Brief Description
1	Supported type 06 protocol for the fuel sensor UFS301.
2	Added Bit 51/52 to the parameter <Input ID Mask> in the command AT+GTUDF.
3	Added type 9 to parameter <Sensor Type> in the command AT+GTFSC.
4	Changed the names of parameters <Cornering and Braking Threshold> and <Cornering and Braking Duration> to <Cornering Threshold> and <Cornering Duration>.

3.2.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A05V16M128**.

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Item	Brief Description
1	Fixed an issue where the EIO100 could not be detected and it took a long time to reported the +RESP:GTIDA message after reboot if using the 1-wire to connect the device to iButton/EIO100/temperature sensor and changing <EIO100 Connection> in the AT+GTACD command.
2	Fixed an issue where the +RESP:GTDOS message was still reported after reboot when the Bit5 in the AT+GTPDS command was enabled to record state of wave shape 1 and all outputs in OEX were triggered.
3	Fixed an issue where the device did not report message +RESP:GTDUC when the data usage was greater than the set parameter value.
4	Fixed an issue where the device reported messages +RESP:GTDIS-90 and +RESP:GTDIS-91 after reboot if AT+GTPDS was enabled to save AT+GTDIS state and the DIS state was changed during the reboot.
5	Fixed an issue where the device reported HEX-formatted messages to cell phone via SMS.
6	Fixed an issue where the values of 3-axis might be 0 in message +RESP:GTACC.
7	Fixed an issue where the device would reboot abnormally after the device started to update the device configuration via AT+GTUPC.
8	Fixed an issue where the message +RESP:GTUPC-305 was reported after a normal reboot if the device failed to update the device configuration and reported +RESP:GTUPC-302.
9	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.
10	Fixed an issue where the device reported two messages +RESP:GTGES when changed parameter <Trigger Mode> in the command AT+GTGEO.
11	Fixed an issue where the device could not be charged after ignition on when setting <Power Mode> to 1 in the command AT+GTCFG.
12	Fixed an issue where the parameter <RFID> in the message was not updated when swiping an authorized card.
13	Fixed an issue where the device reported +RESP:GTSTR after reboot in still state if AT+GTPDS was enabled to save AT+GTSSR state.
14	Fixed an issue where the bit18, Bit19, bit20 and bit21 of parameter <Input ID Mask> in AT+GTUDF did not take effect.
15	Fixed an issue where the device rebooted when sending a cancel command after reporting message +RESP:GTCFU-200 during sub-serial CAN upgrade.
16	Fixed an issue where the device could not parse commands sent via SMS that contained Chinese text fields.
17	Fixed an issue where the device reported message +RESP:GTDOS when the AT+GTRMD function was disabled.

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3.3 GV305CEUR01A05V16M128

3.3.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A05V16M128** supports @Track air interface protocol version 5.02. For detailed information about the protocol, please refer to the document **GV305CEU@Track_Air_Interface_Protocol_v0502**.

3.3.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A05V12M128**.

Item	Brief Description
1	N/A

3.3.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A05V12M128**.

Item	Brief Description
1	Improved production efficiency.

3.4 GV305CEUR01A05V12M128

3.4.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A05V12M128** supports @Track air interface protocol version 5.02. For detailed information about the protocol, please refer to the document **GV305CEU@Track_Air_Interface_Protocol_v0502**.

3.4.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A04V22M128**.

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Item	Brief Description
1	Added Bit 36/37/47/48/51/52 to the parameter <Input ID Mask> in the command AT+GTUDF.
2	Added the command AT+GTMSI to support multiple servers.
3	Added the parameter <Probability Filter Enable> to the command AT+GTRDF.
4	Added the parameter <Fast STP Mode> to the command AT+GTSSR.
5	Added the parameter <Validity Time> to Ignition Detection in the AT+GTDIS command.
6	Added the parameter <Format Version> to the command AT+GTRTO.
7	Added the parameter <Network Type> to the message +RESP:GTINF.
8	Added the parameter <ID Report Format> to the message +RESP:GTGIN/+RESP:GTGOT.
9	Added the parameter <1-wire Data Mask> to the command AT+GTACD.
10	Added the AT+GTHUM command and the +RESP:GTHUM message.
11	Added type 3 to <1-wire Device Type> in +RESP:GTERI message.

3.4.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A04V22M128**.

Item	Brief Description
1	Fixed an issue where the device did not report +RESP:GTSTR after reboot in motion state if AT+GTPDS was enabled to save AT+GTSSR state.
2	Optimized the AT command for updating PDP parameter configuration to solve the LTE authorization failure problem.
3	Fixed an issue where the configuration of AT+GTLTP could be queried by AT+GTRTO.
4	Fixed an issue where the +RESP:GTIOB message would not be reported when the AT+GTIOB was configured to use EIO100 and digital input while the AT+GTIEX and AT+GTDIS functions were not enabled.
5	Fixed an issue where it failed to save the value of parameter <Discard Unknown Event> in AT+GTHBM if it was changed.
6	Fixed an issue where the values of 1-wire temperature sensor were abnormal but still being reported.
7	Fixed an issue where the output was still active when the AT+GTACD command was reset by the AT+GTRTO-4 command.
8	Fixed an issue where the WTH300/WBC300/WTS300/WMS301/WRL300/WTH301 accessories could be scanned by name.

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Item	Brief Description
9	Fixed an issue where the state was not exited for a long time after bad driving behavior was detected when AT+GTHBM mode was set to 5.
10	Fixed an issue where the device rebooted abnormally in network roaming state.
11	Fixed an issue where the message +RESP:GTUPD with code 301 could not be reported to the QMS server after BB firmware was successfully upgraded.
12	Fixed an issue where the device could not reported +RESP:GTVGF when the external power was disconnected immediately after device reboot.
13	Fixed an issue where the value of parameter <Modem IMEI> in the message +RESP:GTATI was incorrect in HEX format.
14	Fixed an issue where the device reboot rebooted after sending multiple AT commands when the parameter <Working Mode> was set to 28 in the command AT+GTURT.
15	Fixed an issue where the device could not self-calibrate after it was cleared by the command AT+GTRTO-25-1.
16	Optimized the detection logic of 1-wire temperature sensor.
17	Optimized the logic of AT+GTPEO/AT+GTGEO functions to solve the problem of device not reporting messages.
18	Fixed an issue where the device with only the internal battery connection might shut down directly after connecting to an external power supply via the USB cable.
19	Fixed an issue where the +RESP:GTFLA message would not be reported in ignition off state if the cumulative drop of fuel level was greater than <Ex Fuel Lost Alarm IGF>.

3.5 GV305CEUR01A04V22M128

3.5.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A04V22M128** supports @Track air interface protocol version 4.05. For detailed information about the protocol, please refer to the document **GV305CEU @Track Air Interface Protocol V4.05**.

3.5.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A03V30M128**.

Item	Brief Description
1	Added model 5 to parameter <Accessory Model> when the parameter <Accessory Type> was set to 6 in the command AT+GTBAS.
2	Added support for reporting message +RESP:GTIDA when BID Bluetooth accessory was scanned.
3	Added type 6 to <Power On Reason> in the message +RESP:GTPNR to indicate the reason for power on.
4	Added the command AT+GTMQT to support MQTT.
5	Added the command AT+GTTLS to support TLS encryption.
6	Added the command AT+GTRTP to support downloading CA certificate file from the backend server.
7	Added the command AT+GTLTP to support writing the CA certificate file to the device by subcontracting.
8	Deleted the parameters <Brake Speed Threshold>, <Delta Speed Threshold> and <Delta Heading Threshold> from the command AT+GTASC.
9	Added the parameter <Report Mode> to the command AT+GTASC.
10	Changed the format of the command AT+GTRCS.
11	Added the command AT+GTRAS to support RS485 device.
12	Added the parameter <Format> to the mode 7/8 in the command AT+GTURT.

3.5.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A03V30M128**.

Item	Brief Description
1	Fixed an issue where the output was not exited if the Bluetooth accessory could not be scanned after +RESP:GTBAA was reported and the output was triggered.
2	Fixed an issue where the messages +RESP:GTSTR and +RESP:GTSTP would be reported when the device engine was off.
3	Fixed an issue where the device could stop working during normal test.
4	Optimized the logic of WKF300 accessories judgment.
5	Added message +RESP:GTEUC in HEX format.
6	Optimized the AGPS Online function to improve positioning effect.
7	Fixed an issue where the backup function was abnormal.
8	Fixed an issue where the parameters <RFID> and <RFID Length> in the messages +RESP:GTPNA were cleared after the device reboot.

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Item	Brief Description
9	Fixed an issue where the output was not triggered if the device state was saved after reboot when output was triggered and AT+GTPEO was saved by AT+GTPDS.
10	Fixed an issue where the waveform 1 would not stop outputting if the device re-entered the speed range specified by <Min Speed> and <Max Speed> after reboot when the <Mode> in AT+GTSPD was set to 2 and the waveform 1 was triggered after the current speed exited the speed range specified by <Min Speed> and <Max Speed>.
11	Fixed an issue where the device would stop reporting +RESP:GTUDT message when it entered the 41 state after reboot with the ignition off if the AT+GTUDT command was issued with the ignition on.
12	Optimized the detection logic of 1-wire temperature sensor.
13	Fixed an issue where the output1 could not output square waves.
14	Fixed an issue where the reserved bit of parameter <UPD Fields Mask> in the command AT+GTUPD read back was valid.
15	Fixed an issue where the configuration of some parameters was not updated after the AT+GTUPC upgrade
16	Fixed an issue where the device would fail to send the AT+GTAIS command if the value of <Min Threshold> was set bigger than <Max Threshold>.
17	Fixed an issue where the device would not report +RESP:GTVGF when it was stationary if <Virtual Ignition On Logic> was set to 1 and the voltage was not satisfied.
18	Optimized the Protocol Application triggered output feature so that when a new output configuration was changed, the old output only stopped when an exit or entry condition was met.
19	Fixed an issue where the <Report ID / Report Type> was reported incorrectly when <Wrap Corner Point> and <Mode> were set to 1 and multipoint reporting was enabled.
20	Fixed an issue where the device state directly changed to 12 (Ignition Off Motion) after moving when <Fake Tow Delay> was set to 0 and the device went from stationary to motion in ignition off state.
21	Improved the accuracy of the interval between two adjacent +RESP:GTFRI reports.
22	Fixed an issue where the Bit 3/4/14 was still selected when Bit 3/4/14 in the parameter <INF Expansion Mask> was unselected in the AT+GTHRM command.
23	Optimized the AT+GTOWL function to disconnect from the operator when illegal PLMN was detected.
24	Fixed an issue where the <Configuration Version> would still be changed in the +RESP:GTDMR message when the AT+GTFVR command was issued but the AT+GTUPC command was not executed.

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Item	Brief Description
25	Fixed an issue where the function AT+GTTMA worked abnormally.
26	Fixed an issue where the parking fence was deleted after the device reboot.
27	Fixed an issue where the message +RESP:GTCAN was abnormal after the device was connected to V3.x BLE CAN.

3.6 GV305CEUR01A03V30M128

3.6.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A03V30M128** supports @Track air interface protocol version 3.01. For detailed information about the protocol, please refer to the document **GV305CEU @Track Air Interface Protocol V3.01**.

3.6.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A02V16M128**.

Item	Brief Description
1	Added model 4 to parameter <Accessory Model> when the parameter <Accessory Type> was set to 6 in the command AT+GTBAS.
2	Added type 13 to parameter <Accessory Type> in the command AT+GTBAS.
3	Added type 2 to parameter <RS485 Device Type> in the command AT+GTRCS.
4	Modified the default value of parameter <Mode> from 0 to 1, and modified the length of parameter <Bluetooth Name> from 25 to 18 in the command AT+GTBTS.
5	Added operations of rebooting the device after upgrading the configuration over the air.
6	Modified the range of parameters <Start Index> and <End Index> from 1-300/N to 1-300 in the command AT+GTBID, and deleted the parameter <Index> from the message +RESP:GTBID.
7	Modified the default value of parameter <Bluetooth Name> in AT+GTBTS from GV305CEU_BT to GV305CEU%IMEI.

3.6.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A02V16M128**.

Item	Brief Description
1	Fixed an issue where <ODO Initial Mileage> was not reset in the AT+GTCFG command when the parameter was reset via AT+GTRTO-4-heavy.
2	Fixed an issue where the value of parameter <ERI Mask> in the message +RESP:GTERI was incorrect when CAN was not configured.
3	Fixed an issue where the device would not trigger output1 when it went from motion to rest and <Motion Sensor> in AT+GTJBS command was set to 1.
4	Fixed an issue where the parameter <ERI mask> in +RESP:GTERI message was inconsistent with the data actually reported.
5	Fixed an issue where the value of parameter <CAN Data> in the message +RESP:GTPDP was incorrect in HEX format.
6	Fixed an issue where the <Firmware Update Time> in +RESP:GTDMR was inconsistent with the actual upgrade time of the device.
7	Fixed an issue where the AT+GTIDL function did not work as expected when the device entered into idling status and changed the value of parameter <Debounce Distance>.
8	Fixed an issue where the <RFID Length> and <RFID> in the HEX format messages +RESP:GTIDA, +RESP:GTIGF, +RESP:GTIGN, +RESP:GTVGF and +RESP:GTVGN were cleared after the device was rebooted.
9	Fixed an issue where the configuration of command AT+GTIDA was lost after the device firmware was upgraded over the air.
10	Fixed an issue where the AT+GTFFC function did not work when triggered via AT+GTGEO.
11	Fixed an issue where hardware ignition was not detected for the first time when the device was powered up for the first time.
12	Optimized crash detection logic.
13	Fixed an issue where the first +RESP:GTFRI report type was wrong when configuring AT+GTFRI multi-point reporting and triggering AT+GTFFC function.
14	Fixed an issue where the device could not work properly when the communication between BB and BLE was disconnected.
15	Fixed an issue where the device could not report +RESP:GTDAT messages to the server when the AT+GTDAT command was issued via secondary serial port.
16	Fixed an issue where the device would abnormally report +RESP:GTDIS after reboot.
17	Optimized the SMS reporting process.
18	Fixed an issue where the message +RESP:GTHBE was not reported when AT+GTHBM mode was set to 5.
19	Fixed an issue where the messages +RESP:GTCRD and +RESP:GTACC were repeatedly reported when it was set to HEX format.

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Item	Brief Description
20	Fixed an issue where some parameters could be lost after upgrading the device firmware.
21	Fixed an issue where the value of parameter <Duration of Ignition Off> in the messages +RESP:GTIGN/+RESP:GTVGN was incorrect for the first ignition event after upgrading device firmware.
22	Fixed an issue where the value of parameter <Area Mask> in the first message +RESP:GTGIN was incorrect when the parameter <State Mode> in AT+GTGEO was set to 1.
23	Fixed an issue where the device could not upgrade BLE firmware through QMS server.
24	Fixed an issue where the device would abnormally report message +RESP:GTCRD when AT+GTCRA was triggered.
25	Fixed an issue where the values of parameters <RFID> and <RFID Length> in the HEX format messages were empty when the parameter <RFID Report Mode> in AT+GTIDA was set to 1.
26	Fixed an issue where the value of parameter <GNSS UTC Time>/<Send Time> in all message was default value.
27	Fixed an issue where the device did not detect stationary state when AT+GTGAM was disabled and the device got GNSS information from GNSS recorder.
28	Fixed an issue where the OUTPUT ID was switched and the previous OUTPUT was off after the TOW alarm was triggered.
29	Fixed an issue where the range of the parameter <Data> in the command AT+GTDAT was inconsistent with @Track Protocol.
30	Fixed an issue where the data could be lost when outputting HEX data to serial port by configuring the AT+GTRTO command.
31	Optimized BLE communication to prevent command execution failure due to abnormal BLE communication.
32	Fixed an issue where the BLE/HW version in the message +RESP:GTATI might be incorrect when version information was queried immediately after device reboot.
33	Fixed an issue where the logic for AT+GTTOW function to control the OUTPUT was error.

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3.7 GV305CEUR01A02V16M128

3.7.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A02V16M128** supports @Track air interface protocol version 2.02. For detailed information about the protocol, please refer to the document **GV305CEU @Track Air Interface Protocol V2.02**.

3.7.2 New Features

The following table lists new features compared with the preceding firmware release, version **GV305CEUR01A01V40M128**.

Item	Brief Description
1	Added the parameter <Available Validity Time> to the BLE TPMS sensor in the command AT+GTBAS.
2	Added parameters related to Digital Output in the command AT+GTBAS.
3	Added mode 2 to parameter <AGPS Mode> in the command AT+GTCFG.
4	Added Assist Now Autonomous function to speed up the first GPS positioning.
5	Added the function of scanning Bluetooth accessories by Bluetooth name to the command AT+GTBAS.
6	Added mode 1 to <Output Direction> in the command AT+GTRTO.
7	Added the parameter <Expand Organization Unique Identifier Numbers> to the command AT+GTBID.
8	Added type 1/2/7/10/11 to parameter <Accessory Type> in the command AT+GTBAS.
9	Added the parameter <Index> to the command AT+GTBID.
10	Added model 1/2 to parameter <Beacon ID Model> in the command AT+GTBID.
11	Modified the range of parameter <AT Command> in the command AT+GTRTO.
12	Added the parameter <Modem IMEI> to the message +RESP:GTATI.
13	Deleted the parameter <Configuration Mask> from the command AT+GTRTO.

3.7.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GV305CEUR01A01V40M128**.

Item	Brief Description
1	Fixed an issue in which the device reported two +RESP:GTMPN/+RESP:GTMPF messages when the external power was disconnected and re-connected in a short period of time.
2	Fixed an issue in which the specified output still had a wave output after the AT+GTTMP command was reset.
3	Fixed an issue in which the AGPS did not work as expected immediately when the GPS was turned off for more than two hours.
4	Optimized the AT+GTOUT command.
5	Fixed an issue in which the device would lose authorization if it was rebooted in the ignition on state when the AT+GTPDS command was saved ignition state.
6	Fixed an issue in which the parameter <Output Number> of AT+GTOEX could be sent when it was set to null.
7	Fixed an issue in which the parameter <Output ID> in AT+GTBAS could not be saved.
8	Fixed an issue in which the bit9 and bit10 of the parameter <Accessory Append Mask> in the command AT+GTBAS could be saved.
9	Optimized GPS location logic.
10	Optimized Bluetooth scanning and upgrade logic.
11	Optimized the device reboot logic to prevent the BLE module or MCU module from failing to reboot due to abnormal communication.
12	Fixed an issue in which the value of parameter <mask> in the message +RESP:GTPDP was error on HEX format.
13	Optimized the AT+GTSSR command.
14	Fixed an issue in which the value of the parameter <GNSS Accuracy> in +RESP:GTCAN was always 0.
15	Optimized alarm logic in the command AT+GTCLT.
16	Optimized 1-wire search device logic.
17	Fixed an issue in which the message +RESP:GTERI contained the parameter <CAN Data> on HEX format.
18	Fixed an issue in which the <New Version> in the message +RESP:GTUFS was incorrect after successful upgrade.
19	Fixed an issue in which the parameter <Ignition On Debounce> of the AT+GTVVS command did not take effect when the device was connected to a 12V power supply after it entered the virtual ignition off state.
20	Fixed an issue in which the state of Jamming was triggered after removing the SIM card.
21	Fixed an issue in which there was incorrect reporting of <Charging> and <LED State> in the message +RESP:GTINF on HEX format.

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Item	Brief Description
22	Fixed an issue in which the <External Power> and <Battery Voltage> were not reported in the first +RESP:GTINF message after device reboot when the battery was detected.
23	Fixed an issue in which the <Send Time> was set to 20200101 and remained unchanged after the device was rebooted.
24	Fixed an issue in which the time went backwards after upgrading the firmware over the air.
25	Fixed an issue in which the device upgrade might fail.
26	Fixed an issue in which the <GNSS Trigger Type> was always reported as 01 in the HEX message +RESP:GTINF when <Corner Report> in AT+GTFRI was 0.
27	Fixed an issue in which the device still took pictures according to the previous configuration after AT+GTCMS configuration was reset by AT+GTRTO with resetting CMS only.
28	Fixed an issue in which the new interval could not take effect immediately after changing the parameter <IGF Report Interval> of the AT+GTFRI command in ignition off state.
29	Fixed an issue where the output was not triggered when the <Mode> was set to 1 or 2 in AT+GTGEO and AT+GTPDS was enabled.
30	Fixed an issue in which the reported +RESP:GTCAN message was incorrect after switching the units (m) and (l) of the parameter <Total Distance> from one to the other.
31	Fixed an issue in which the first +RESP:GTUDT message was repeatedly reported and the interval of the second +RESP:GTUDT message was incorrect after device reboot.
32	Fixed an issue in which the parameter <GNSS Trigger Type> was reported as 00 in the HEX message +RESP:GTFRI when <Corner Report> and privacy protection was enabled.

3.8 GV305CEUR01A01V40M128

3.8.1 @Track Protocol Support

GV305CEU firmware **GV305CEUR01A01V40M128** supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document **GV305CEU @Track Air Interface Protocol V1.00**.

This is the initial firmware release of GV305CEU.