

GB100CG Firmware Release Notes

GSM/GPRS/GNSS Tracker

TRACGB100CGRNR01A04V10

Version: 1.4.10



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1 Preamble

This Release Note introduces GB100CG firmware version **GB100CGR01A04V10M128** and briefly describes the benefits over preceding release. Also you can find difference compared with preceding release.

Note

To upgrade the firmware from A01V27 to this version over the air, please upgrade it to A02V12 first and then to this version.

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2 Current Release

2.1 GB100CGR01A04V10M128

2.1.1 @Track Protocol Support

GB100CG firmware **GB100CGR01A04V10M128** supports @Track air interface protocol version 4.02. For detailed information about the protocol, please refer to the document **GB100CG@Track_Air_Interface_Protocol_v0402**.

2.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GB100CGR01A03V17M128**.

Item	Brief Description
1	Added the command AT+GTSVR.
2	Added the parameters <Real-Time State>, <Ghost Battery Percentage> and <Ghost Status> to the message +RESP:GTBTI.
3	Added Enhanced <Satellite in Use> to <+RSP Expansion Mask>, <+EVT Expansion Mask> and <+CRI Expansion Mask> in the AT+GTHRM command to extend the range of <Satellite in Use> to 72.
4	Added %IMEI% to the parameters <Subscribe Topic> and <Publish Topic> in the command AT+GTMQT to support batch setting of IMEI numbers as Topic for devices.
5	Modified the value range of parameter <Sampling Frequency Mode> in the command AT+GTCRA.
6	Added the command AT+GTBFS.
7	Added parameters <CSQ RSSI/CSQ BER> to <+RSP Expansion Mask> in the AT+GTHRM command.
8	Added the model 9 to the parameter <Beacon ID Model> in the command AT+GTBID to report +RESP:GTBFS message.
9	Added Bit 20 to <ERI Mask> in the AT+GTFRI command to report CSQ RSSI/RSRP and CSQ BER.
10	Added parameter <GNSS off Latency> to the command AT+GTCFG.

2.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GB100CGR01A03V17M128**.

Item	Brief Description
1	Fixed an issue where the device would not report the +RESP:GTVGF message after resetting VMS configuration when in the virtual ignition on state.
2	Fixed an issue where the +RESP:GTUDT message was still reported even though both AT+GTTOW and AT+GTFRI functions were disabled and the <IGF Sending Mode> in AT+GTUDT was set to 1.
3	Fixed an issue where some special SIM cards could not register to the network when <Network Mode> was set to 0-Auto mode in the GTBSI command.
4	Fixed an issue where the message type in the HEX format +CRI message was incorrect.
5	Fixed an issue where the MAC address reported in the BAA message was incorrect when WKF300, WID310, and ID ELA were configured simultaneously in the command AT+GTBID.
6	Optimized the battery function.
7	Optimized the jamming detection function.
8	Optimized the logic of <Ignition Mode> in the AT+GTSLM command.
9	Optimized the logic of <Report Interval> in the AT+GTDMS command to make the device report the first +RESP:GTDMMR message according to the remaining time after reboot.
10	Optimized the speed value of compressed report function.

3 Release History

3.1 GB100CGR01A03V17M128

3.1.1 @Track Protocol Support

GB100CG firmware **GB100CGR01A03V17M128** supports @Track air interface protocol version 3.05. For detailed information about the protocol, please refer to the document **GB100CG@Track_Air_Interface_Protocol_v0305**.

3.1.2 New Features

The following table lists new features compared with the preceding firmware release, version **GB100CGR01A02V16M128**.

Item	Brief Description
1	Added the parameters <Primary DNS Server> and <Secondary DNS Server> to the commands AT+GTSRI and AT+GTQSS.
2	Added the command AT+GTOWL.
3	Added <Backup Battery Charge State> for <Backup Battery Information> in +RESP:GTDMMR.
4	Added value F3 to <Sub Command> in the AT+GTRTO command to send +RESP:GTDMMR message to QMS server.
5	Supported Azure IoT Hub in the AT+GTMQT command.
6	Added the parameters <Ignition Mode> and <SLM Report Mode> to the command AT+GTSLM.
7	Added the parameter <WAN Ping> to the command AT+GTBSI.

3.1.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GB100CGR01A02V16M128**.

Item	Brief Description
1	Optimized the sensor function.
2	Fixed an issue where it failed to detect tilt-event with beacon WID320G.
3	Optimized the SMS parsing function.

Item	Brief Description
4	Fixed an issue where the acceleration data reported in the +RESP:GTACC message might all be 0.
5	Fixed an issue where the <Total Hour Meter Count> in message was not updated in a timely manner.
6	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.
7	Fixed an issue where the device reported HEX-formatted messages to cell phone via SMS.
8	Fixed an issue where it was unable to register on the network when using some SIM cards with a private APN and authenticating with a registered user and password.
9	Fixed an issue where the device could not scan the Bluetooth accessory when the <Beacon ID Model> in the command AT+GTBID was set to 2 and the Beacon Type of the Bluetooth accessory was only Eddystone.
10	Fixed an issue where two +RESP:GTGES messages might be reported when the <Trigger Mode> in the command AT+GTGEO was set to 21 and the device was ignition off.
11	Optimized the protocol watchdog function.
12	Modified the value range of parameter <IGF Report Interval> in the command AT+GTFRI.
13	Deleted the parameter <Read Interval> from the command AT+GTBAS.
14	Modified the value range of parameter <Sampling Frequency Mode> in the command AT+GTCRA.
15	Optimized the Jamming Detection function.
16	Fixed an issue where the device was connected to WID320 but the message showed that it was not connected.
17	Fixed an issue where the APN information could not be cleared by setting the parameter value to "%CLR%".
18	Modified the value range of parameter <GNSS Satellite Number>.
19	Fixed an issue where the device could not be registered through automatic network mode using some SIM cards.

3.2 GB100CGR01A02V16M128

3.2.1 @Track Protocol Support

GB100CG firmware **GB100CGR01A02V16M128** supports @Track air interface protocol version 2.01. For detailed information about the protocol, please refer to the document **GB100CG@Track_Air_Interface_Protocol_v0201**.

3.2.2 New Features

The following table lists new features compared with the preceding firmware release, version **GB100CGR01A02V12M128**.

Item	Brief Description
1	Added type 15 and model 1 to the parameters <Accessory Type> and <Accessory Model> in the command AT+GTBAS to support MOV ELA Bluetooth sensor.

3.2.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GB100CGR01A02V12M128**.

Item	Brief Description
1	N/A

3.3 GB100CGR01A02V12M128

3.3.1 @Track Protocol Support

GB100CG firmware **GB100CGR01A02V12M128** supports @Track air interface protocol version 2.00. For detailed information about the protocol, please refer to the document **GB100CG@Track_Air_Interface_Protocol_v0200**.

3.3.2 New Features

The following table lists new features compared with the preceding firmware release, version **GB100CGR01A01V27M128**.

Item	Brief Description
1	Added the parameter <Fast STP Mode> to the command AT+GTSSR.
2	Deleted the parameters <Brake Speed Threshold>, <Delta Speed Threshold> and <Delta Heading Threshold> from the command AT+GTASC.
3	Added the parameter <Report Mode> to the command AT+GTASC.

3.3.3 Improved Features

The following table lists features or parameters that have been changed or improved compared with preceding firmware release, version **GB100CGR01A01V27M128**.

Item	Brief Description
1	Fixed an issue with slow message report when the SACK function was disabled.
2	Optimized buffer storage to increase the number of messages saved.
3	Optimized SMS sending function to support adding any character to the header.
4	Optimized the process of PDP reconfiguration to solve the problem of not reporting messages.
5	Fixed an issue where the <Network Type> reported in the +RESP:GTINF message was incorrect.
6	Fixed an issue where the parameters <Backup Battery Voltage> and <Backup Battery Percentage> were inconsistent in +RESP:GTDNR messages in ASCII and HEX formats.
7	Fixed an issue where the <Power On Reason> was not 6 in the +RESP:GTPNR message after +RESP:GTUPC-301 reboot.
8	Fixed an issue where the GNSS information in the message +RESP:GTUDT was controlled by the parameter <Report Item Mask> of the AT+GTCFG command.
9	Fixed an issue where the values of three axes reported were 0 when switching the <Compressed Report> in AT+GTFRI.
10	Fixed an issue where device in motion reported +RESP:GTSTP when positioning failed.
11	Optimized Jamming detection logic to avoid fake Jamming situations.
12	Fixed an issue where SMS containing special characters could not be parsed.
13	Fixed an issue where there was no GNSS point in the message +RESP:GTCRG.
14	Fixed an issue where the parameter <ID> of AT+GTGEO would be reset to the default value after the device rebooted in ignition on state.
15	Fixed an issue where the +RESP:GTCRA messages were stored to buffer.
16	Fixed an issue where the serial number changed to 0 after the device was rebooted.

Item	Brief Description
17	Fixed an issue where the number of GNSS information in a +RESP:GTCRG message did not match the setting.
18	Fixed an issue where the <Crash Counter> was always reported as 00 in HEX-formatted CRA message.
19	Fixed an issue where +RESP:GTHBM was incorrectly reported when the device failed to locate and the speed was below the set threshold.
20	Fixed an issue where the reserved parameter was reported as 00 in the ASCII-formatted message +RESP:GTUDDT.
21	Fixed an issue where +RESP:GTBID/+RESP:GTBIE messages were not reported according to the set interval when the Beacon ID Model of AT+GTBID was 4 and WID310 Detection Mode was 3.
22	Optimized GTFVR function to save local parameters to the same file.
23	Fixed an issue where the <Backup Battery Voltage> reported in the HEX-formatted +RESP:GTDMMR message was incorrect when the device was not connected to the internal battery.
24	Fixed an issue where only +ACK messages were reported when issuing AT+GTRTO commands via SMS.

3.4 GB100CGR01A01V27M128

3.4.1 @Track Protocol Support

GB100CG firmware **GB100CGR01A01V27M128** supports @Track air interface protocol version 1.00. For detailed information about the protocol, please refer to the document **GB100CG @Track Air Interface Protocol V1.00**.

This is the initial firmware release of GB100CG.