GM862-GPS, GE863-GPS - GPS AT COMMANDS SET
GM862-GPS, GE863-GPS
80278ST10021a Rev. 0 - 21/04/06
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1 Introduction

1.1 Scope of the document

To describe all AT commands necessary to control a GPS device connected to the Telit wireless modules.

This feature is available on the following products:
GM862-GPS
GE863-GPS

1.2 Abbreviation symbols

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT</td>
<td>Attention command</td>
</tr>
<tr>
<td>GPS</td>
<td>Global Positioning System</td>
</tr>
<tr>
<td>GLONASS</td>
<td>Global positioning system maintained by the Russian Space Forces</td>
</tr>
<tr>
<td>GNSS</td>
<td>Any single or combined satellite navigation system (GPS, GLONASS and combined</td>
</tr>
<tr>
<td>GPS/GLONASS</td>
<td></td>
</tr>
<tr>
<td>NMEA</td>
<td>National Marine Electronics Association</td>
</tr>
<tr>
<td>WAAS</td>
<td>Wide Area Augmentation System</td>
</tr>
<tr>
<td>GGA</td>
<td>GPS Fix data</td>
</tr>
<tr>
<td>GSA</td>
<td>GPS DOP and Active satellites</td>
</tr>
<tr>
<td>GSV</td>
<td>GPS satellites in view</td>
</tr>
<tr>
<td>RMC</td>
<td>Recommended minimum Specific data</td>
</tr>
<tr>
<td>VTG</td>
<td>Course over ground and ground speed</td>
</tr>
<tr>
<td>GLL</td>
<td>Geographic Position – Latitude/Longitude</td>
</tr>
<tr>
<td>DGPS</td>
<td>Differential GPS, the use of GPS measurements, which are differentially corrected.</td>
</tr>
<tr>
<td>HDOP</td>
<td>Horizontal Dilution of Precision</td>
</tr>
<tr>
<td>VDOP</td>
<td>Vertical dilution of precision</td>
</tr>
</tbody>
</table>

1.3 APPLICABLE DOCUMENTS

a) NMEA 1083 (standard for Interfacing Marine Electronic Devices)
1.4 AT Command

The Telit wireless module family can be driven via the serial interface using the standard AT commands. Moreover Telit wireless module family supports also Telit proprietary AT commands for special purposes. In the following is described how to use the AT commands with the Telit wireless module Family in order to control a GPS device connected to the module.

1.4.1 Definitions

The following syntactical definitions apply:

<CR> Carriage return character; is the command line and result code terminator character, which value, in decimal ASCII between 0 and 255, is specified within parameter S3. The default value is 13.

<LF> Linefeed character; is the character recognized as line feed character. Its value, in decimal ASCII between 0 and 255, is specified within parameter S4. The default value is 10.

The line feed character is output after “carriage return” character if verbose result codes are used (V1 option used) otherwise, if numeric format result codes are used (V0 option used) it will not appear in the result codes.

<...> Name enclosed in angle brackets is a syntactical element. They do not appear in the command line.

[...] Optional sub parameter of a command or an optional part of TA information response is enclosed in square brackets. Brackets themselves do not appear in the command line. When sub parameter is not given in AT commands, which have a read command, new value equals to its previous value. In AT commands, which do not store the values of any of their sub parameters, and so have not a read command, which are called action type commands, action should be done on the basis of the recommended default setting of the sub parameter.

Default: configuration of parameters that is available when the module is powered up for the first time or after a reset of parameters to “Factory default”

Controlled Mode Configuration of Telit module that permits to control through a serial port and a set of IO lines the connected GPS device.
1.4.2 AT Command Syntax

The AT is an ATTENTION command and is used as a prefix to other parameters in a string. The AT command combined with other parameters can be set up in the communications package or typed in manually as a command line instruction. Every extended command has a test command (trailing =?) to test the existence of the command and to give information about the type of its sub parameters. There are two types of extended command:
- Parameter type commands, which also have a read command (trailing ?) to check the current values of sub parameters.
- Action type commands do not store the values of any of their possible sub parameters, and therefore do not have a read command.
In general when a command is issued without any trailing character, the read command is executed as if the trailing ? character was present.
## 2 GPS AT COMMANDS SET

### 2.1 GPS CONTROLLER MANAGEMENT COMMANDS

#### 2.1.1 AT$GPSP - GPS controller power management

This command allows to:
- Manage power-up or down of the GPS controller

<table>
<thead>
<tr>
<th>AT$GPSP - GPS controller power management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command:</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Read command:</strong></th>
<th>AT$GPSP?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>? The command will return the current status</td>
</tr>
</tbody>
</table>

| **Write command:** | |
|--------------------| |

| **Test command:** | |
|-------------------| |

<table>
<thead>
<tr>
<th><strong>Example:</strong></th>
<th>AT$GPSP=0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AT$GPSP=?</th>
<th>(0-1)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>AT$GPSP?</th>
<th>Gives the current state</th>
</tr>
</thead>
</table>

| **Reference:** | |
|----------------| |

| **Note:** | If a camera is used with the module and it is powered on, the command will be not executed due to the fact the supply voltage is in common between the 2 devices. |
2.1.2 AT$GPSR - GPS RESET

This command allows to Reset the GPS controller.

Four Modes are available:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Reset</td>
<td>The GPS receiver is reset and restarts by using the values stored in the internal memory of the GPS receiver.</td>
</tr>
<tr>
<td>Hot Start</td>
<td>The GPS receiver restarts by using the values stored in the internal memory of the GPS receiver; validated ephemeris and almanac.</td>
</tr>
<tr>
<td>Warm Start</td>
<td>This option clears all initialization data in the GPS receiver and subsequently reloads the data that is currently displayed in the Receiver Initialization Setup screen. The almanac is retained but the ephemeris is cleared.</td>
</tr>
<tr>
<td>Cold Start</td>
<td>This option clears all data that is currently stored in the internal memory of the GPS receiver including position, almanac, ephemeris, and time. The stored clock drift however, is retained.</td>
</tr>
</tbody>
</table>

**AT$GPSR - GPS RESET**

<table>
<thead>
<tr>
<th>Execute command:</th>
<th>AT$GPSR=&lt;reset type&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;reset type&gt;</td>
<td>0 Hardware reset</td>
</tr>
<tr>
<td></td>
<td>1 Coldstart (No Almanac, No Ephemeris) (1)</td>
</tr>
<tr>
<td></td>
<td>2 Warmstart (No ephemeris) (1)</td>
</tr>
<tr>
<td></td>
<td>3 Hotstart (with stored Almanac and Ephemeris) (1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Read command:</th>
<th>AT$GPSR=?</th>
</tr>
</thead>
<tbody>
<tr>
<td>? Provides the range of accepted values (0-3)</td>
<td></td>
</tr>
</tbody>
</table>

| Write command:  | |
|-----------------| |

| Test command:   | |
|-----------------| |

<table>
<thead>
<tr>
<th>Example:</th>
<th>AT$GPSR=0 OK</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT$GPSR=?</td>
<td>(0-3)</td>
</tr>
</tbody>
</table>

| Reference:      | |
|-----------------| |

| Note:           | (1) Available only in Controlled mode. (SW reset) |
2.1.3 AT$GPSD - GPS DEVICE TYPE SET

This command allows to:
Define which GPS device is connected to the module. It dedicates the Serial port #1 of the module (TRACE) to receive the GPS strings from the GPS module.

<table>
<thead>
<tr>
<th>AT$GPSD - GPS DEVICE TYPE SET</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command:</strong></td>
</tr>
<tr>
<td>AT$GPSD=?</td>
</tr>
<tr>
<td>Provides the range of accepted values (0-3)</td>
</tr>
<tr>
<td><strong>Read command:</strong></td>
</tr>
<tr>
<td>AT$GPSD?</td>
</tr>
<tr>
<td>? The command will return the current status</td>
</tr>
<tr>
<td><strong>Write command:</strong></td>
</tr>
<tr>
<td>AT$GPSD=&lt;device type&gt;</td>
</tr>
<tr>
<td>0 none (Serial port not connected to GPS device – <strong>DEFAULT on GE863-GPS</strong>)</td>
</tr>
<tr>
<td>2 Controlled Mode (Modem serial port connected to GPS serial port – <strong>DEFAULT on GM862-GPS</strong>)</td>
</tr>
<tr>
<td><strong>Test command:</strong></td>
</tr>
<tr>
<td><strong>Example:</strong></td>
</tr>
<tr>
<td>AT$GPSD=0</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td>AT$GPSD=?</td>
</tr>
<tr>
<td>(0-3)</td>
</tr>
<tr>
<td><strong>Reference:</strong></td>
</tr>
<tr>
<td><strong>Note:</strong></td>
</tr>
<tr>
<td>(*) AT$GPSSAV must be executed after to store this setting in memory (the new functionality will be available after the next power on)</td>
</tr>
</tbody>
</table>
2.1.4 AT$GPSSW - GPS SOFTWARE VERSION

This command allows to:
Provides the SW version of the GPS Module.

<table>
<thead>
<tr>
<th>AT$GPSSW - GPS SOFTWARE VERSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute command:</td>
</tr>
<tr>
<td>Read command:</td>
</tr>
<tr>
<td>AT$GPSSW</td>
</tr>
<tr>
<td>$GPSSW: &lt;sw version&gt;</td>
</tr>
<tr>
<td>Write command:</td>
</tr>
<tr>
<td>Test command:</td>
</tr>
<tr>
<td>Example:</td>
</tr>
<tr>
<td>AT$GPSSW</td>
</tr>
<tr>
<td>$GPSSW: GSW3.1.1_3.1.00.07-C23P1.00</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td>Reference:</td>
</tr>
<tr>
<td>Note:</td>
</tr>
</tbody>
</table>
### 2.2 GPS ANTENNA CONFIGURATION

This set of commands set the GPS antenna configuration and monitoring management.

#### 2.2.1 AT$GPSAT – GPS ANTENNA TYPE DEFINITION

This command allows to:
- Select the GPS antenna used

<table>
<thead>
<tr>
<th>AT$GPSAT – CONFIGURE GPS ANTENNA TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command:</strong></td>
</tr>
<tr>
<td><strong>Read command:</strong> AT$GPSAT?</td>
</tr>
<tr>
<td>? The command will return the current status</td>
</tr>
<tr>
<td><strong>Write command:</strong> AT$GPSAT=&lt;type&gt;</td>
</tr>
<tr>
<td>&lt;type&gt;</td>
</tr>
<tr>
<td>0 GPS Antenna not supplied by the module</td>
</tr>
<tr>
<td>1 GPS Antenna supplied by the module (default)</td>
</tr>
<tr>
<td>? Provides the range of accepted values (0-1)</td>
</tr>
<tr>
<td><strong>Test command:</strong></td>
</tr>
<tr>
<td><strong>Example:</strong> AT$GPSAT=1</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td><strong>Reference:</strong></td>
</tr>
<tr>
<td><strong>Note:</strong></td>
</tr>
<tr>
<td>AT$GPSSAV must be executed to save this configuration</td>
</tr>
<tr>
<td>If set to 0 the Antenna current and Voltage readout are not available.</td>
</tr>
<tr>
<td>Refer to the HW user guide for the compatible GPS antennas</td>
</tr>
</tbody>
</table>
### 2.2.2 AT$GPSAV – GPS ANTENNA SUPPLY VOLTAGE READOUT

This command allows to:
Measure the GPS Antenna's supply voltage

<table>
<thead>
<tr>
<th>AT$GPSAV – GPS ANTENNA VOLTAGE READOUT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command:</strong></td>
</tr>
<tr>
<td><strong>Read command:</strong></td>
</tr>
<tr>
<td>AT$GPSAV?</td>
</tr>
<tr>
<td>? The command will return the measured voltage in mV</td>
</tr>
<tr>
<td><strong>Write command:</strong></td>
</tr>
<tr>
<td><strong>Test command:</strong></td>
</tr>
<tr>
<td><strong>Example:</strong></td>
</tr>
<tr>
<td>AT$GPSAV?</td>
</tr>
<tr>
<td>$GPSAV:3800</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td><strong>Reference:</strong></td>
</tr>
<tr>
<td><strong>Note:</strong></td>
</tr>
<tr>
<td>Not available if antenna Type set to 0</td>
</tr>
</tbody>
</table>

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2.2.3 AT$GPSAI – GPS ANTENNA CURRENT READOUT

This command allows to:
Report the GPS Antenna’s Current consumption.

**AT$GPSAI - GPS ANTENNA CURRENT MONITOR**

<table>
<thead>
<tr>
<th>Execute command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read command:</td>
</tr>
<tr>
<td>AT$GPSAI?</td>
</tr>
<tr>
<td>?</td>
</tr>
<tr>
<td>&lt;value&gt;[, &lt;status&gt;]^{1}</td>
</tr>
<tr>
<td>&lt;value&gt; the measured current in mA</td>
</tr>
<tr>
<td>&lt;status&gt;^{1}</td>
</tr>
<tr>
<td>0 GPS antenna OK</td>
</tr>
<tr>
<td>1 GPS antenna consumption out of the limits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Write command:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test command:</td>
</tr>
<tr>
<td>Example:</td>
</tr>
<tr>
<td>AT$GPSAI?</td>
</tr>
<tr>
<td>$GPSAI:040,0</td>
</tr>
<tr>
<td>OK</td>
</tr>
</tbody>
</table>

Reference:

Note:^{1} Available only if Antenna protection is activated (see $GPSAP)
2.2.4 AT$GPSAP – GPS ANTENNA PROTECTION

This command allows to:
Activate an automatic protection in case of high current consumption of GPS antenna. The protection disables
the GPS antenna supply voltage

<table>
<thead>
<tr>
<th>AT$GPSAP - GPS ANTENNA PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command</strong></td>
</tr>
<tr>
<td><strong>Read command:</strong> AT$GPSAP?</td>
</tr>
<tr>
<td>Returns the current antenna limit value in the format $GPSAP:&lt;set&gt;,&lt;value&gt;</td>
</tr>
<tr>
<td><strong>Write command</strong> AT$GPSAP=&lt;set&gt;,&lt;value&gt;</td>
</tr>
<tr>
<td>&lt;set&gt; =0</td>
</tr>
<tr>
<td>Deactivate current antenna protection (default)</td>
</tr>
<tr>
<td>=1,&lt;value&gt;</td>
</tr>
<tr>
<td>Activate current antenna protection; &lt;value&gt; is the antenna current limit value in mA</td>
</tr>
<tr>
<td>=?</td>
</tr>
<tr>
<td>Returns the available ranges for &lt;set&gt;,&lt;value&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Test command</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example</strong></td>
</tr>
<tr>
<td>AT$GPSAP=0</td>
</tr>
<tr>
<td>AT$GPSAP=1,25 (1)</td>
</tr>
<tr>
<td>AT$GPSAP? (1)</td>
</tr>
<tr>
<td>AT$GPSAP=2 (1)</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td><strong>Note</strong>: no SW control on antenna status (HW current limitation only)</td>
</tr>
<tr>
<td>AT$GPSAP=1,25,50</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td>Antenna protection activated with 50mA limit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Reference</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>AT$GPSSAV must be executed to save this configuration</td>
</tr>
<tr>
<td>The module is already provided of an Hardware protection for the high current consumption that is automatically activated if the consumption exceeds 50mA</td>
</tr>
</tbody>
</table>

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2.3 NMEA DATA CONFIGURATION

2.3.1 AT$GPSNMUN – UNSOLICITED NMEA DATA CONFIGURATION

This command permits to:
Activate an Unsolicited streaming of GPS data (in NMEA format) through the standard GSM serial port (AT).
Define which NMEA sentences will be available.

**AT$GPSNMUN – UNSOLICITED NMEA DATA CONFIGURATION**

<table>
<thead>
<tr>
<th>Execute Command</th>
<th>Read command</th>
<th>Write command</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT$GPSNMUN?</td>
<td>Gives the current setup: &lt;Enable&gt;, &lt;GGA, GLL, GSA, GSV, RMC, VTG&gt;</td>
<td>AT$GPSNMUN=&lt;enable&gt; [&lt;GGA, GLL, GSA, GSV, RMC, VTG&gt;]</td>
</tr>
<tr>
<td>AT$GPSNMUN</td>
<td>NMEA Sentences setup</td>
<td>NMEA data stream de-activated (default). NMEA data stream activated</td>
</tr>
<tr>
<td>AT$GPSNMUN</td>
<td>(x contains the enable 1=enabled, 0 = disabled)</td>
<td>&lt;GGA, GLL, GSA, GSV, RMC, VTG&gt;:</td>
</tr>
<tr>
<td></td>
<td>The available NMEA sentences are</td>
<td>DEFAULT: &lt;0,0,0,0,0,0&gt;</td>
</tr>
<tr>
<td></td>
<td>GGA Global Positioning System Fix Data</td>
<td>Returns the available values for all the fields</td>
</tr>
<tr>
<td></td>
<td>GLL Geographical Position – Latitude/Longitude</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GSA GPS DOP and Active Satellites</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GSV GPS Satellites in View</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RMC Recommended Minimum Specific GPS Data</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VTG Course Over Ground and Ground Speed</td>
<td></td>
</tr>
</tbody>
</table>

Example

AT$GPSNMUN=1,0,0,1,0,0,0
AT$GPSNMUN=0

OK These sets the GSA as available sentence in the unsolicited message
OK Turn-off the unsolicited mode
### AT$GPSNMUN – UNSOLICITED NMEA DATA CONFIGURATION

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT$GPSNMUN?</td>
<td>The unsolicited message will be:</td>
<td>$GPSNMUN: 1,0,0,1,0,0,0,0 OK $GPGSA,A,3,23,20,24,07,13,04,02,,,,,,2.4,1.6,1.8*3C</td>
</tr>
<tr>
<td>AT$GPSNMUN=?</td>
<td></td>
<td>$GPSNMUN:(0-1),(0-1),(0-1),(0-1),(0-1),(0-1),(0-1) OK</td>
</tr>
</tbody>
</table>

**Reference**

NMEA 01803 Specifications

**Note**

1. AT$GPSSAV must be executed to save this configuration
   The command is available in “Controlled Mode” only

   The available NMEA Sentences are depending on the GPS receiver used

   In GE863-GPS and GM862-GPS the fields PDOP and VDOP are not available
   Use NMEA serial port instead if full DOP info are needed
2.3.2 AT$GPSACP – GET ACQUIRED POSITION

This command permits to:
Get the information about the last position stored by the GPS receiver.

<table>
<thead>
<tr>
<th>AT$GPSACP - Get Acquired position information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command</strong></td>
</tr>
<tr>
<td>AT$GPSACP</td>
</tr>
<tr>
<td><strong>Read command AT$GPSACP</strong></td>
</tr>
</tbody>
</table>

The answer will be composed by the following informations:

- `<UTC>`: (referred to GGA sentence)
  - hhmmmss
  - Values: hh (hour) 00 to 23
  - mm (minutes) 00 to 59
  - ss (seconds) 00 to 59

- `<latitude>`: (referred to GGA sentence)
  - dddmm.mmmm N/S
  - Values: dd (degrees) 00 to 90
  - mm.mmmm (minutes) 00,0000 to 59.9999
  - N/S: North / South

- `<longitude>`: (referred to GGA sentence)
  - dddmm.mmmm E/W
  - Values: dd (degrees) 00 to 180
  - mm.mmmm (minutes) 00,0000 to 59.9999
  - E/W: East / West

- `<hdop>`: (referred to GGA sentence)
  - x.x
  - Horizontal Dilution of Precision

- `<altitude>`: (referred to GGA sentence)
  - xxxx.x
  - Altitude – mean-sea-level (geoid) (meters)

- `<fix>`: (referred to GSA sentence)
  - 1 Invalid Fix
  - 2 2D fix
  - 3 3D fix

- `<cog>`: (referred to VTG sentence)
  - ddd.mm
  - Course over Ground (degrees, True)
  - Values: ddd: 000 to 360 degrees
  - mm 00 to 59 minutes
### AT$GPSACP - Get Acquired position information

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;spkm&gt;:</td>
<td>(referred to VTG sentence)</td>
</tr>
<tr>
<td>xxxx.x</td>
<td>Speed over ground (Km/hr)</td>
</tr>
<tr>
<td>&lt;spkn&gt;:</td>
<td>(referred to VTG sentence)</td>
</tr>
<tr>
<td>xxxx.x</td>
<td>Speed over ground (knots)</td>
</tr>
<tr>
<td>&lt;date&gt;:</td>
<td>(referred to RMC sentence)</td>
</tr>
<tr>
<td>ddmmyy</td>
<td>Date of Fix</td>
</tr>
<tr>
<td></td>
<td>Values:</td>
</tr>
<tr>
<td></td>
<td>dd (day) 01 to 31</td>
</tr>
<tr>
<td></td>
<td>mm (month) 01 to 12</td>
</tr>
<tr>
<td></td>
<td>yy (year) 00 to 99 (2000 to 2099)</td>
</tr>
<tr>
<td>&lt;nsat&gt;:</td>
<td>(referred to GSV sentence)</td>
</tr>
<tr>
<td>nn</td>
<td>Total number of satellites in view</td>
</tr>
</tbody>
</table>

#### Write command

**Test command**

AT$GPSACP

The response syntax is: $GPSACP:<UTC>,<latitude>,<longitude>,<hdop>,<altitude>,<fix>,<cog>,<spkm>,<spkn>,<date>,<nsat>

#### Example

AT$GPSACP

$GPSACP:080220,4542.82691N,01344.26820E,259.07,3,2.1,0.1,0.0,0,0.0,270705,09

OK

### Reference

### Note
2.4 GPS PARAMETERS (SAVE / RESTORE)

This commands permit to:
Save the current configuration in the EEPROM memory of the module.
Restore the parameters to the “Factory Default”

In order to activate the new configuration the module must be restarted after the command.

2.4.1 AT$GPSSAV – SAVE GPS PARAMETERS CONFIGURATION.

This command permits to:
Save the current configuration in the EEPROM memory of the module.

<table>
<thead>
<tr>
<th>AT$GPSSAV – SAVE GPS PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execute command</strong></td>
</tr>
<tr>
<td>AT$GPSSAV</td>
</tr>
<tr>
<td><strong>Read command</strong></td>
</tr>
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<td></td>
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<tr>
<td><strong>Write command</strong></td>
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<tr>
<td></td>
</tr>
<tr>
<td><strong>Test command</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Example</strong></td>
</tr>
<tr>
<td>AT$GPSSAV</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Reference</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Note</strong></td>
</tr>
<tr>
<td>The module must be restarted to use the new configuration</td>
</tr>
</tbody>
</table>
2.4.2 AT$GPSRST – RESTORE TO DEFAULT GPS PARAMETERS.

This command permits to:
Restore the GPS parameters to the “Factory Default” configuration and to store them in the EEPROM memory of the module.

<table>
<thead>
<tr>
<th>AT$GPSRST – RESTORE ALL GPS PARAMETERS</th>
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</thead>
<tbody>
<tr>
<td>Execute command</td>
</tr>
<tr>
<td>AT$GPSRST</td>
</tr>
<tr>
<td>Read command</td>
</tr>
<tr>
<td>Write command</td>
</tr>
<tr>
<td>Test command</td>
</tr>
<tr>
<td>Example</td>
</tr>
<tr>
<td>AT$GPSRST</td>
</tr>
<tr>
<td>OK</td>
</tr>
<tr>
<td>Reference</td>
</tr>
</tbody>
</table>

**Note**
The module must be restarted to use the new configuration
3 Document Change Log

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Changes</th>
</tr>
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<tbody>
<tr>
<td>ISSUE#0</td>
<td>21/04/06</td>
<td>Release First ISSUE# 0</td>
</tr>
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</table>

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