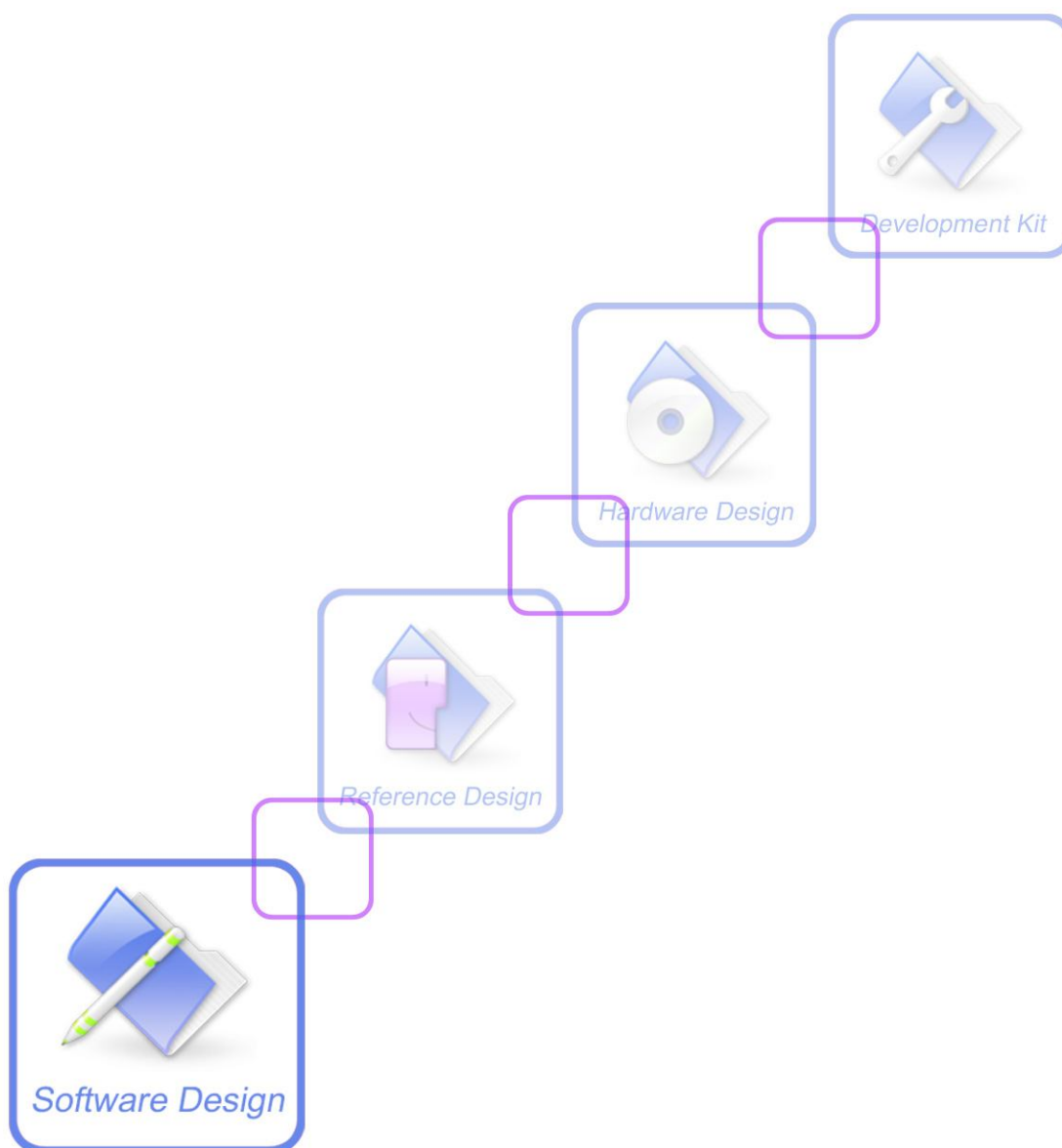




# AT Command Set

**SIMCOM\_SIM5360\_ECALL\_ATC\_V0.02**



|                        |                                     |
|------------------------|-------------------------------------|
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## Version History

| Version | Chapter           | Comments            |
|---------|-------------------|---------------------|
| V0.01   | New Version       |                     |
| V0.02   | 1.7 AT+CECALLSMSD | Modify this command |

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# 1 SIM DM AT commands

## 1.1 AT+CECALLS Make e-call

### Description

The command is used to make an e-call.

**Note:** Test call need to unlock pin, Emergency call does not need to unlock pin

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command   | Responses  |
|--|--|
| AT+CECALLS=?   | +CECALLS: (scope of <calltype>),(scope of <cannedMSD>)<br>OK |
| Write Command  | Responses  |
| AT+CECALLS=<num>,<calltype>,<cannedMSD>,<activationType> | OK<br>ERROR  |

### Defined values

|                    |   |
|--------------------|---|
| <num>              | Dialing number.   |
| <calltype>         | e-call type:<br>0 — Test call<br>1 — Emergency call   |
| <cannedMSD>        | Use the canned GPS information or real GPS information.<br>0 — Send real MSD<br>1 — Send canned MSD |
| < activationType > | Activation type:<br>0 — Manual trigger<br>1 — Automatic trigger                                     |

### Examples

|                              |
|------------------------------|
| AT+CECALLS=18621008925,0,1,1 |
| OK                           |

## 1.2 AT+CECALLE Hang up e-call

### Description

The command is used to hang up the e-call.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command      | Responses                     |
|-------------------|-------------------------------|
| AT+CECALLE=?      | OK                            |
| Execution Command | Responses                     |
| AT+CECALLE        | OK<br>VOICE CALL: END: <time> |
|                   | <i>No call:</i><br>OK         |

### Defined values

<time>

Voice call connection time.

Format – HHMMSS (HH: hour, MM: minute, SS: second)

### Examples

*AT+CECALLE*

*OK*

## 1.3 AT+CECALLCFG Configure e-call MSD information

### Description

The command is used to configure the MSD information.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command          | Responses |
|-----------------------|-----------|
| AT+CECALLCFG=?        | OK        |
| Write Command         | Responses |
| AT+CECALLCFG=<vehicle | OK        |

`<type>,<storage>,<num>,<vin>,<vehicledirection>,<delta1_lon>,<delta1_lat>,<delta2_lon>,<delta2_lat>` ERROR

## Defined values

### `<vehicletype>`

- 1 — Passenger vehicle class M1
- 2 — Buses and coaches class M2
- 3 — Buses and coaches class M3
- 4 — Light commercial vehicles class N1
- 5 — Heavy duty vehicles class N2
- 6 — Heavy duty vehicles class N3
- 7 — Motorcycles class L1e
- 8 — Motorcycles class L2e
- 9 — Motorcycles class L3e
- 10 — Motorcycles class L4e
- 11 — Motorcycles class L5e
- 12 — Motorcycles class L6e
- 13 — Motorcycles class L7e

### `<storage>`

Propulsion storage: It should choice multi-storage. decimal number

**NOTE** Example: Choice “Electric energy storage” and “Diesel tank present”, the `<storage>` must be set by 18. (i.e. 2 or 16 equal 18)

- 0 — Unknown or other type of energy storage
- 1 — Hydrogen storage
- 2 — Electric energy storage
- 4 — Liquid propane gas
- 8 — Compressed natural gas
- 16 — Diesel tank present
- 32 — Gas online tank present

Range is 0~63.

### `<num>`

Number of passenger. Range is 0~255.

### `<vin>`

Vehicle id number. Length of `<vin>` must be 17.

VIN number according to ISO 3779. including:

1. World Manufacturer Index (WMI)
2. Vehicle Type Descriptor (VDS)
3. Vehicle Identification Sequence (VIS)

The character in VIN must be the member of this table:

("A".."H"|"J".."N"|"P"|"R".."Z"|"0".."9")

**<vehicledirection>**

The direction of travel in 2°-degrees steps from magnetic north (0– 358, clockwise). Only values from 0 to 179 are valid. If direction of travel is invalid or unknown, the value 0xFF shall be used. Unit is 2 degree. Range of <vehicledirection> is 0~179.

**<delta1\_lon>**

Description of recent vehicle longitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

**<delta1\_lat>**

Description of recent vehicle latitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

**<delta2\_lon>**

Description of recent vehicle longitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

**<delta2\_lat>**

Description of recent vehicle latitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

**Examples**

```
AT+CECALLCFG=5,18,8,"WMJVDSVDSYA123456",14,10,-10,20,-20
OK
```

**1.4 AT+CECALLTRIG Trigger e-call session**

**Description**

The command is used to trigger e-call session after ECALL has been established. This command can be used to push to send MSD.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

**Syntax**



| Test Command      | Responses                   |
|-------------------|-----------------------------|
| AT+CECALLTRIG=?   | OK                          |
| Execution Command | Responses                   |
| AT+CECALLTRIG     | +ECALL:IVS push to send MSD |
|                   | OK                          |
|                   | ERROR                       |

## Examples

```
AT+CECALLTRIG
+ECALL:IVS push to send MSD
OK
```

## 1.5 AT+CECALLPOS Set position information

### Description

The command is used to set position information.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command             | Responses |
|--------------------------|-----------|
| AT+CECALLPOS=?           | OK        |
| Write Command            | Responses |
| AT+CECALLPOS=<lon>,<lat> | OK        |
| at>                      | ERROR     |

### Defined values

<lon>

Longitude of current position, format is ddd.dxxxxx. Unit is degree. Range is -180~180.

<lat>

Latitude of current position, format is dd.dxxxxx. Unit is degree. Range is -90~90.

### Examples

```
AT+CECALLPOS="121.354138","31.221938"
OK
```

## 1.6 AT+CECALLTIME Set timestamp

### Description

The command is used to set timestamp.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command  | Responses   |
|---|-------------|
| AT+CECALLTIME=?   | OK          |
| Write Command   | Responses   |
| AT+CECALLTIME=<flag>[<br><year>,<month>,<day>,<hour>,<minute>,<second>] | OK<br>ERROR |

### Defined values

|  |
|--|
| <flag>   |
| 0 - use system time, not need to set <year>,<month>,<day>,<hour>,<minute>,<second> |
| 1 - must set <year>,<month>,<day>,<hour>,<minute>,<second>                         |
| <year>   |
| Year : integer   |
| Range is 1970~2100   |
| <month>  |
| Month : integer  |
| Range is 1~12  |
| <day>  |
| Day : integer  |
| Input range :  |
| Jan \ Mar \ May \ Jul \ Aug \ Oct \ Dec: 1~31                                      |
| Feb: 1~28 (1~29 if leap year)  |
| Apr \ Jun \ Sep \ Nov: 1~30  |
| <hour>   |
| Hour : integer   |
| Range is 0~23  |
| <minute>   |
| Minute : integer   |
| Range is 0~59  |
| <second>   |
| Second : integer   |

Rang is 0~59

## Examples

```
AT+CECALLTIME=1,2011,10,20,15,30,30
```

```
OK
```

## 1.7 AT+CECALLFMT Set MSD serialize format

### Description

The command is used to set MSD pack format

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command       | Responses                                   |
|--------------------|---|
| AT+CECALLFMT=?     | +CECALLFMT: (list of supported <fmt>)<br>OK |
| Read Command       | Responses                                   |
| AT+CECALLFMT?      | +CECALLFMT: <fmt><br>OK                     |
| Execution Command  | Responses                                   |
| AT+CECALLFMT=<fmt> | OK  |
|                    | ERROR                                       |

### Defined values

<fmt>

0 - set MSD serialize format as bytes (qualcomm default format)

1 - set MSD serialize format as bits (for Russia ecall)

### Examples

```
AT+CECALLFMT=1
```

```
OK
```

## 1.8 AT+CECALLMODE configure command for auto and manual mode

### Description

The command is used to configure the ecall for auto and manual mode

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command             | Responses                                    |
|--------------------------|--|
| AT+CECALLMODE=?          | +CECALLFMT: (list of supported <mode>)<br>OK |
| Read Command             | Responses                                    |
| AT+CECALLMODE?           | +CECALLFMT: <mode ><br>OK                    |
| Execution Command        | Responses                                    |
| AT+CECALLMODE<br>=<mode> | OK<br>ERROR                                  |

### Defined values

<mode>

0 - configure the ecall for manual mode

1 - configure the ecall for auto mode(default )

### Examples

```
AT+CECALLMODE=1
```

```
OK
```

## 1.9 AT+CECALLSMSD manul send MSD for e-call session

### Description

The command is used to manual trigger e-call session after ECALL has been established. This command can be used to push to send MSD.

Difference between auto and manual process: for auto mode, after IVS start call PASP, Connect send TX first SEND MSD automatically; for manual mode, customer need to send MSD, the ATC is CECALLSMSD.

| SIM PIN | References |
|---------|------------|
| NO      | Vendor     |

### Syntax

| Test Command      | Responses                              |
|-------------------|--|
| AT+ CECALLSMSD=?  | OK                                     |
| Execution Command | Responses                              |
| AT+ CECALLSMSD    | +ECALL:IVS push to send MSD            |
|                   | OK                                     |
|                   | +ECALL:Ecall send the msd data by auto |
|                   | ERROR                                  |
|                   | Ecall is not actived!                  |
|                   | ERROR                                  |

### Examples

```
AT+ CECALLSMSD
+ECALL:IVS push to send MSD
OK
```



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