

# **AT Commands Specification**

Ericsson G3x Fixed Wireless Terminal

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## 1. INTRODUCTION

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### 1.1 Purpose

The purpose of this document is to give the list of AT commands supported by the G3x Fixed Wireless Terminal (FWT) product series.

## 2. AT COMMAND LIST

The following tables give lists of AT commands supported on the FWT. Table 2-1 contains a list of proprietary FWT commands that is supported.

FWT Commands	Description	Requires SIM Card	Command Description
AT*EREBOOT	Reboot the FWT	No	3.1.1
AT*ERESTART	Restart the FWT without cutting line feed	No	3.1.2
AT*ELIPC	LIPC library management	No	3.1.3
AT*FWTFR	FLASH read	No	3.1.4
AT*FWTFW	FLASH write	No	3.1.5
AT*EBATT	FWT powering status	No	3.1.6
AT*ERAM	Read bytes from RAM/FLASH	No	3.1.7
AT*ESETR	Read FWT parameters using labels	No	3.1.8
AT*ESETW	Write FWT parameters using labels	No	3.1.9
AT*ECELL	Cell report with list of available cells.	Yes	3.1.10
AT*ESNS	Sets the bearer capability of the next incoming call.	Yes	3.1.11
AT*ESRxxx	Security read functions	Yes	3.1.12
AT*RING	SLIC: Ringing signal generation	No	3.1.13.1
AT*POL	SLIC: Polarity for the 2W-line interface	No	3.1.13.2
AT*TONG	SLIC: Single or double tone generation	No	3.1.13.3
AT*DTDE	SLIC: DTMF activation/deactivation	No	3.1.13.4
AT*DTDEOUT	SLIC: display of the detected DTMF tone	No	3.1.17.5
AT*DTGE	SLIC: Tone generation	No	3.1.13.5
AT*INIT	SLIC: Initialise the SLIC	No	3.1.13.7
AT*OPER	SLIC: Operate Request for SLIC	No	3.1.13.8
AT*DIS	SLIC: Disable Request for SLIC	No	3.1.13.9
AT*LPBRK	SLIC: Loopbreak on 2W-line interface	No	3.1.13.10
AT*CID	SLIC: Caller id standard	No	3.1.13.11
AT*LFD	SLIC: Linefeed mode	No	3.1.13.12
AT*MTR	SLIC: Metering pulse	No	3.1.13.13
AT*VBAT	SLIC: Control high and low battery voltage	No	3.1.13.14
AT*LLMT	SLIC: Short circuit loop limit.	No	3.1.13.15
AT*LTYPE	SLIC: Sets the load type	No	3.1.13.16
AT*ANLG	SLIC: Sets analogue Rx/Tx gain	No	3.1.13.17
AT*DIG	SLIC: Sets digital Rx/Tx gain	No	3.1.13.18
AT*SPMUTE	SLIC: Sets speech to mute (Tx/Rx)	No	3.1.13.19
AT*HOOK	SLIC: Get the hook status	No	3.1.13.20
AT*ERRTXT	SLIC: Display error string/text	No	3.1.13.21
AT*SLICHLP	SLIC: Returns all available SLIC commands	No	3.1.13.22
AT*DRAM	ADSP: Execute RAM test	No	3.1.14.1
AT*DRST	ADSP: Resets ADSP	No	3.1.14.2
AT*DUAL	ADSP: Activates DSP audio loop	No	3.1.14.3
AT*DPAGE	ADSP: Load page	No	3.1.14.4

FWT Commands	Description	Requires SIM Card	Command Description
AT*LED	Control LEDs	No	3.1.15.1

Table 2-1 FWT proprietary commands

The following tables lists the AT commands and are as follows:

- [07.05] Commands, Table 2-2, and Result Codes, Table 2-3,
- [27.007] Commands, Table 2-4, and Result Codes, Table 2-5.
- [V25ter] Commands, Table 2-6, and Result Codes, Table 2-7.
- [TIA578A] Commands, Table 2-8.
- Chipset Proprietary Commands, Table 2-9.

\*: means that command is partially impacted by switch else command is activated by switch.

M: means mandatory

O: means optional

[07.05] Commands		M/O
Select Message Service	+CSMS	M
Preferred Message Storage	+CPMS	M
Message Format	+CMGF	M
Service Center Address	+CSCA	M
Select cell broadcast message types	+CSCB	O
Set Text Mode Parameters	+CSMP	M1
Show Text Mode Parameters	+CSDH	M1
Save Settings	+CSAS	O
Restore Settings	+CRES	O
New Message Indications to TE	+CNMI	M2
List Messages	+CMGL	O
Read Message	+CMGR	O
Send Message	+CMGS	O
Send Message from Storage	+CMSS	O
Write Message to Memory	+CMGW	O
Delete Message	+CMGD	O

<sup>1</sup> Mandatory when text mode is implemented

<sup>2</sup> Mandatory when any of the new message indications implemented

Table 2-2 [07.05] Commands

[07.05] Result codes		M/O
Received SMSPP indication	+CMTI	O
Received SMSPP content	+CMT	O
Received CBM Content	+CBM	O
Received SMS status report Content	+CDS	O
Message Service Failure	+CMS ERROR	M

Table 2-3 [07.05] Result Codes

<b>[27.007] commands</b>		<b>M/O</b>
Manufacturer identification	+CGMI	O
Model identification	+CGMM	O
Revision identification	+CGMR	O
Product serial number identification	+CGSN	O
Select TE character set	+CSCS	M3
Request international mobile subscriber identity	+CIMI	O
Select type of address	+CSTA	M4
Call mode	+CMOD	M5
Hang-up call	+CHUP	M5
Select bearer service type	+CBST	M6
Radio link protocol	+CRLP	M7
Service reporting control	+CR	M6
Extended error report	+CEER	O
Cellular result codes	+CRC	M8
Voice hang up control	+CVHU	O
Subscriber number	+CNUM	O
Network registration	+CREG	O
Operator selection	+COPS	O
Facility lock	+CLCK	M9
Change password	+CPWD	O
Calling line identification presentation	+CLIP	O
Calling line identification restriction	+CLIR	O
Connected line identification presentation	+COLP	O
Call forwarding number and conditions	+CCFC	M9
Call waiting	+CCWA	O
Call related supplementary services	+CHLD	O
Advice of Charge	+CAOC	O
Unstructured supplementary service data	+CUSD	O
Supplementary service notifications	+CSSN	O
List current calls	+CLCC	O10
Preferred operator list	+CPOL	O
Read operator names	+COPN	O
Phone activity status	+CPAS	M11
Enter PIN	+CPIN	M12
Battery charge	+CBC	O
Signal quality	+CSQ	O
Mobile Equipment control mode	+CMEC	M13
Indicator control	+CIND	O
Mobile Equipment event reporting	+CMER	M13
Select phonebook memory storage	+CPBS	M14
Read phonebook entries	+CPBR	O
Find phonebook entries	+CPBF	O
Write phonebook entry	+CPBW	O
Clock	+CCLK	O



[27.007] commands		M/O
Alert sound mode	+CALM	O
Ringer sound level	+CRSL	O
Vibrator mode	+CVIB	O
Loudspeaker volume level	+CLVL	O
Accumulated call meter	+CACM	O
Accumulated call meter maximum	+CAMM	O
Price per unit and currency table	+CPUC	O
Call Meter maximum event	+CCWE	O
Set Language	+CLAN	O
Set Greeting Text	+CSGT	O
Set Voice Mail Number	+CSVM	O
Ring Melody Playback	+CRMP	O
Mute control	+CMUT	O
List all available AT commands	+CLAC	O
Set phone functionality	+CFUN	O
Report Mobile Equipment error	+CMEE	M15
Define PDP Context	+CGDCONT	M16
Quality of Service Profile (Requested)	+CGQREQ	O
Quality of Service Profile (Minimum acceptable)	+CGQMIN	O
3G Quality of Service Profile (Requested)	+CGEQREQ	O
3G Quality of Service Profile (Minimum acceptable)	+CGEQMIN	O
GPRS attach or detach	+CGATT	O
PDP context activate or deactivate	+CGACT	O
Show PDP address	+CGPADDR	O
Enter data state	+CGDATA	O17
GPRS mobile station class	+CGCLASS	O
GPRS network registration status	+CGREG	O
Select service for MO SMS messages	+CGSMS	O
Request GPRS service	D*	O18
DTMF and tone generation	+VTS	M
Tone duration	+VTD	M
CMUX protocol activation	+CMUX	M

3 Mandatory when a command using the setting of this command is implemented

4 Mandatory when other than default value allowed

5 Mandatory when alternating mode calls are implemented in the TA

6 Mandatory when data calls implemented

7 Mandatory when RLP implemented

8 Mandatory when data or fax circuit mode calls implemented or for a MT/TA supporting AT commands only and eMLPP or VGCS or VBS is implemented

9 Mandatory for MT/TA supporting AT commands only and not supporting the control through dial command D

10 Recommended when +CHLD command is implemented

11 Mandatory when MT can be operated from TE

12 Mandatory for MT not supporting the +CKPD command and supporting AT commands only

13 Mandatory when any of keypad, display or indicator commands is implemented

14 Mandatory when phonebook read, find or write command, or direct dialing is implemented

15 Mandatory for <n> values 0 and 1

16 Mandatory unless only a single subscribed context is supported

17 Optional if the D (dial) command can be used to specify Packet Domain operation

18 Optional if the +CGDATA command is supported

Table 2-4 [27.007] Commands

<b>[27.007] Result codes</b>		<b>M/O</b>
Service reporting	+CR	M19
Ringing indication	+CRING	O
Service reporting	+CREG	O
Calling line identification presentation	+CLIP	O
Connected line identification presentation	+COLP	O
Call waiting	+CCWA	O
Unstructured supplementary service data	+CUSD	O
Supplementary service notification	+CSSI	O
Supplementary service notification	+CSSU	O
Current Call Meter notification	+CCCM	O
Indicator event report	+CIEV	O
Call Meter warning value	+CCWV	O
Error result code	+CME ERROR	M20

<sup>19</sup> Mandatory when data calls implemented

<sup>20</sup> Mandatory for numeric format codes applicable to implemented command set

*Table 2-5 [27.007] Result Codes*

<b>[V25ter] commands</b>		<b>M/O</b>
Answer	A	O
Dial	D	M
Hang up	H	O
Monitor speaker loudness	L	M
Monitor speaker mode	M	M
Online	O	M
Pulse dialing	P	M
Automatic answer	S0	O
Pause before blind dialing	S6	M
Connection completion timeout	S7	M
Comma dial modifier time	S8	M
Automatic disconnect delay	S10	M
Tone dialing	T	M
Repeat last command	A/	O
Identification information	I	O
Reset default configuration	Z	M
Factory defined configuration	&F	M
Complete capabilities list	+GCAP	M
Manufacturer identification	+GMI	M
Model identification	+GMM	M
Revision identification	+GMR	M
Serial number identification	+GSN	O
Echo	E	M
Result code suppression	Q	M
Line termination character	S3	M
Response formatting character	S4	M

<b>[V25ter] commands</b>		<b>M/O</b>
Line editing character	S5	M
TA response format	V	M
Result code selection and call progress monitoring control	X	M
Data carrier detect (DCD) behavior	&C	M
Data Terminal Ready (DTR) behavior	&D	M
Fixed TE rate	+IPR	O
TE-TA character framing	+ICF	O
TE-TA local flow control	+IFC	O

Table 2-6 [V25ter] Commands

<b>[V25ter] result codes</b>		<b>M/O</b>
Engaged signal	BUSY	P
Connection established	CONNECT	M
Invalid command line	ERROR	M
Connection completion timeout	NOANSWER	O
Connection terminated or connection attempt fails	NOCARRIER	M
Command execution acknowledge	OK	M
Incoming call signal	RING	M

Table 2-7 [V25ter] Result Codes

<b>[TIA578A] commands</b>		<b>M/O</b>
Manufacturer identification FMI	+FMI	O
Model identification FMM	+FMM	O
Revision identification FMR	+FMR	O
Service Class FCLASS	+FCLASS	M
Transmit silence FTS	+FTS	M
Receive silence FRS	+FRS	M
HDLC transmit FTH	+FTH	M
HDLC receive FRH	+FRH	M
Facsimile transmit FTM	+FTM	M
Facsimile receive FRM	+FRM	M

Table 2-8 [TIA578A] Commands

<b>Proprietary commands</b>		<b>M/O</b>
Communication option	B	O
Negotiate handshake option	N	O
Ring count	S1	O
Escape character	S2	O
DTMF Dialing speed	S11	O
Extended result code W	W	O

---

<b>Proprietary commands</b>		<b>M/O</b>
Flow control option &K	&K	O
DSR option &S	&S	O
Configuration profile &V	&V	O
Store active profile &W	&W	O
Service Class #CLS	#CLS	O
RTS/CTS option &R	&R	O
*PSCPOF	*PSCPOF	O
*PSLOCUP	*PSLOCUP	O
*PSSSURC	*PSSSURC	O
SIM ToolKit interface configuration	*PSSTKI	O
SIM ToolKit command	*PSSTK	O

*Table 2-9 Chipset proprietary commands*

### 3. AT COMMAND DESCRIPTION

#### 3.1 FWT Proprietary Commands

##### 3.1.1 AT\*EREBOOT – Reboot the FWT

Description	Command	Possible responses
Reboot the FWT	AT*EREBOOT	+CME ERROR:<err> OK ERROR
Show if the command is supported	AT*EREBOOT=?	+CME ERROR:<err> OK ERROR

*Table 3-1 AT\*EREBOOT action command syntax*

**Description:**

The execution command reboots the FWT, just as if it was powered off or the reset button was pressed.

**Abortability:** This command may not be aborted.

**Defined values:** not applicable.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

##### 3.1.2 AT\*ERESTART – Restart FWT without cutting line feed

Description	Command	Possible responses
Restart the FWT	AT*ERESTART	+CME ERROR:<err> OK ERROR
Show if the command is supported	AT*ERESTART=?	+CME ERROR:<err> OK ERROR

*Table 3-2 AT\*ERESTART action command syntax*

**Description:**

The execution command reboots the FWT, but without cutting the line feed (so the FWT rebooting does not affect devices connected to it and powered by it).

**Abortability:** This command may not be aborted.

**Defined values:** not applicable.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.3 AT\*ELIPC – LIPC library management

Description	Command	Possible responses
Load a specific LIPC from FLASH to memory	AT*ELIPC=<number>	OK +CME ERROR:<err> ERROR
Show if the command is supported, and LIPC files available in FLASH	AT*ELIPC=?	*ELIPC: <number>, <name> <number>, <name> ... <number>, <name> OK +CME ERROR:<err> ERROR
Show the active LIPC	AT*ELIPC?	*ELIPC:<number>, <name> OK +CME ERROR:<err> ERROR

Table 3-3 AT\*ELIPC action command syntax

**Description:**

The execution command loads a specific LIPC from FLASH to memory. Which LIPC to load is pointed by its number, i.e. its *Settings file number (I100)*.

The test command returns the list of available LIPC files in the FWT library (FLASH), in the order in which they are stored.

The read command returns the number of the LIPC file that is active.

**Abortability:** This command may not be aborted.

**Defined values:**

**<number> parameter description**

<number>	Description
Integer	LIPC number, i.e., value of its <i>Settings file number (I100)</i> .

**<name> parameter description**

<name>	Description
String	LIPC name, i.e., value of its <i>Settings file name (I101)</i> .

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.4 AT\*FWTFR – FLASH Read

Description	Command	Possible responses
Reads the FWT block from FLASH	AT*FWTFR	OK +CME ERROR:<err> ERROR

Description	Command	Possible responses
Show if the command is supported	AT*FWTFR=?	OK +CME ERROR:<err> ERROR

Table 3-4 AT\*FWTFR action command syntax

**Description:**

The execution command reads the block of FWT parameters from FLASH into RAM. This is a complete set of current parameters.

**Abortability:** This command may not be aborted.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.5 AT\*FWTFW – FLASH Write**

Description	Command	Possible responses
Writes the FWT block to FLASH	AT*FWTFW	OK +CME ERROR:<err> ERROR
Show if the command is supported	AT*FWTFW=?	OK +CME ERROR:<err> ERROR

Table 3-5 AT\*FWTFW action command syntax

**Description:**

This command writes the complete set of active FWT parameters from RAM into FLASH.

**Abortability:** This command may not be aborted.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.6 AT\*EBATT – FWT powering status**

Description	Command	Possible responses
Show if the command is supported	AT*EBATT=?	*EBATT:(list of supported <power>s) OK +CME ERROR:<err> ERROR
Show powering status	AT*EBATT	*EBATT:<power> OK +CME ERROR:<err> ERROR

Table 3-6 AT\*EBATT action command syntax

**Description:**

The read command shall return the type of powering that the FWT is currently under (battery or power supply).

**Abortability:** This command may not be aborted.

**Defined values:**

**<power> parameter description**

<power>	Description
0	FWT powered through external power supply (AC/DC or DC/DC).
1	FWT powered through battery, i.e., Alarm 50 ("Power failure") active.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.7 AT\*ERAM – Read FLASH

Description	Command	Possible responses
Reads bytes from RAM address	AT*ERAM=<RAM>, <NR>	OK +CME ERROR:<err> ERROR

Table 3-7 AT\*ERAM action command syntax

**Description:**

The ERAM function is used to read a specified number of bytes from the FWT RAM/FLASH space. By specifying the correct memory address the ERAM command allows both FLASH and RAM reads.

**Abortability:** This command may not be aborted.

**Defined values:**

**<RAM> parameter description**

<RAM>	Description
Hexadecimal value	AAAAAA = RAM address

**<NR> parameter description**

<NR>	Description
Integer value	Number of bytes to read with max 40

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.8 AT\*ESETR – Read parameter



Description	Command	Possible responses
Reads parameter from FWT	AT*ESETR=<label>	AT*ESETR:<value> OK +CME ERROR:<err> ERROR

Table 3-8 AT\*ESETR action command syntax

**Description:**

The ESETR function is used for FWT parameter reading. Values are returned in Hex format. Note: D300 to D309 and I107 are not accessible via this command.

**Abortability:** This command may not be aborted.

**Defined values:**

**<label> parameter description**

<label>	Description
String of length 4	XXXX= label that uniquely defines parameter

**<value> parameter description**

<value>	Description
String value	Value of parameter corresponding to <label>

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.9 AT\*ESETW – Write parameter

Description	Command	Possible responses
Sets parameter in FWT	AT*ESETW=<label>,<value>	OK +CME ERROR:<err> ERROR

Table 3-9 AT\*ESETW action command syntax

**Description:**

The ESETW function is used to write FWT parameters using label names. Note: D300 to D309 and I107 are not accessible via this command.

**Abortability:** This command may not be aborted.

**Defined values:**

**<label> parameter description**

<label>	Description
String value	XXXX= label that uniquely defines parameter (4 characters)

**<value> parameter description**

<value>	Description
Byte value	Value of parameter corresponding to <label>

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.10 AT\*ECELL – Read cell information**

Description	Command	Possible responses
Returns cell information	AT*ECELL	AT*CELL<id>,<rxlevel>,<channel>,<LAC>,<id1>,>,<rxlevel1>,<channel1>,<LAC1>,...,<id5>,>,<rxlevel5>,<channel5>,<LAC5> OK +CME ERROR:<err> ERROR

*Table 3-10 AT\*ECELL action command syntax*

**Description:**

The ECELL function returns information about the current and five best extra cells available. The number of cells returned depends on the current availability of cells, where the first one is the current cell.

**Abortability:** This command may not be aborted.

**Defined values:****<id> parameter description**

<id>	Description
String of length 5	Cell identity

**<rxlevel1> parameter description**

<rxlevel>	Description
String of length 4	Rx Level

**<channel> parameter description**

<channel>	Description
String of length 3	Channel

**<LAC> parameter description**

<LAC>	Description
String of length 5	LAC

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.11 AT\*ESNS – Bearer Capability

Description	Command	Possible responses
Sets bearer capability	AT*ESNS=<value>	OK +CME ERROR:<err> ERROR
Reads bearer capability	AT*ESNS?	*SNS<value> OK +CME ERROR:<err> ERROR

Table 3-11 AT\*ESNS action command syntax

**Description:**

The ESNS function sets the bearer capability for the next incoming call.

**Abortability:** This command may not be aborted.

**Defined values:**

<value> parameter description

<value>	Description
0	Speech Call
1	Fax Call
2	Data Call

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.12 AT\*ESRxxx (Security parameters only)

#### 3.1.12.1 AT\*ESRNET

Description	Command	Possible responses
Returns network personalization information	AT*ESRNET	AT*ESRNET<max>, <flag>, <mcc>, <mnc>, <mcc2>, <mnc2> OK +CME ERROR:<err> ERROR

Table 3-12 AT\*ESRNET action command syntax

**Description:**

The ESRNET function is used for network personalization read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S201)	Description
Integer value (1 byte)	Maximum number of NCK attempts (NCT)

**<flag> parameter description**

<flag> (S202)	Description
0	Disables
1	Enables

**<mcc> parameter description**

<mcc> (S203)	Description
Hexadecimal string of length 3	Mobile country code – digits 1, 2 and 3 of IMSI (MCC)

**<mnc> parameter description**

<mnc> (S204)	Description
Hexadecimal string of length 3	Mobile network code - digits 4-5 or 4-5-6 of the IMSI (MNC)

**<mcc2> parameter description**

<mcc2> (S220)	Description
Hexadecimal string of length 3	Mobile country code - digits 1, 2 and 3 of the IMSI. To be paired with the <i>Additional mobile network code (MNC+)</i> (MCC+)

**<mnc2> parameter description**

<mnc2> (S205)	Description
Hexadecimal string of length 3	Additional mobile network code - digits 4-5 or 4-5-6 of the IMSI (MNC+)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.2 AT\*ESRSNET**

Description	Command	Possible responses
Returns network subset personalization information	AT*ESRSNET	AT*ESRNET<max>, <flag>, <min_imsi6>, <max_imsi6>, <min_imsi7>, <max_imsi7> OK +CME ERROR:<err> ERROR

Table 3-13 AT\*ESRSNET action command syntax

**Description:**

The ESRNET function is used for network subset personalization read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S207)	Description
Integer value (1 byte)	Maximum number of NSCK attempts (NSCT)

**<flag> parameter description**

<flag> (S202)	Description
0	Disables
1	Enables

**<min\_imsi6> parameter description**

<min_imsi6> (S209)	Description
string (1 digit)	Minimum digit 6 of IMSI

**<max\_imsi6> parameter description**

<max_imsi6> (S210)	Description
string (1 digit)	Maximum digit 6 of IMSI

**<min\_imsi7> parameter description**

<min_imsi7> (S211)	Description
string (1 digit)	Minimum digit 7 of IMSI

**<max\_imsi7> parameter description**

<max_imsi7> (S212)	Description
string (1 digit)	Maximum digit 7 of IMSI

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.3 AT\*ESRGID**

Description	Command	Possible responses
Returns SIM GID info	AT*ESRGID	AT*ESRGID<max>, <flag>, <gid1>, gid2> OK +CME ERROR:<err> ERROR

Table 3-14 AT\*ESRGID action command syntax

**Description:**

The ESRGID function is used for SIM GID (Group Identifiers) personalization read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S207)	Description
Integer value (1 byte)	Maximum number of NSCK attempts (NSCT)

**<flag> parameter description**

<flag> (S213)	Description
0	Disables
1	GID1 lock
2	GID1+GID2 lock

**<gid1> parameter description**

<gid1> (S214)	Description
integer (1 digit)	GID1 value

**<gid2> parameter description**

<gid2> (S215)	Description
integer (1 digit)	GID2 value

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.4 AT\*ESRPIN**

Description	Command	Possible responses
Returns PIN info	AT*ESRPIN	AT*ESRPIN<max>, <flag> OK +CME ERROR:<err> ERROR

*Table 3-15 AT\* ESRPIN action command syntax*

**Description:**

The ESRPIN function is used for pin-lock read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S301)	Description
Integer value (1 byte)	Maximum number of PLCK attempts (PLCT)

**<flag> parameter description**

<flag> (S302)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.5 AT\*ESRFWT**

Description	Command	Possible responses
Returns FWT lock info	AT*ESRFWT	AT*ESRFWT<max>, <flag> OK +CME ERROR:<err> ERROR

*Table 3-16 AT\* ESRFWT action command syntax*

**Description:**

The ESRFWT function is used for FWT-lock read

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S401)	Description
Integer value (1 byte)	Maximum number of FLCK attempts (FLCT)

**<flag> parameter description**

<flag> (S401)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.12.6 AT\*ESROP

Description	Command	Possible responses
Returns operator name	AT*ESROP	AT*ESROP<max>, <flag> OK +CME ERROR:<err> ERROR

Table 3-17 AT\* ESROP action command syntax

**Description:**

The ESROP function is used for operator name read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S603)	Description
Integer value (1 byte)	Maximum number of OPCK attempts (OPCT)

**<flag> parameter description**

<flag> (S600)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.12.7 AT\*ESRGPRS

Description	Command	Possible responses
Returns GPRS info	AT*ESRGPRS	AT*ESRGPRS<max>, <flag> OK +CME ERROR:<err> ERROR

Table 3-18 AT\*ESRGPRS action command syntax

**Description:**

The ESRGPRS function is used for GPRS function read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S502)	Description
Integer value (1 byte)	Maximum number of GPRSCK attempts (GPRSCT)



**<flag> parameter description**

<flag> (S500)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.8 AT\*ESRCSD**

Description	Command	Possible responses
Returns CSD info	AT*ESRCSD	AT*ESRCSD<max>, <flag> OK +CME ERROR:<err> ERROR

*Table 3-19 AT\*ESRCSD action command syntax*

**Description:**

The ESRCSD function is used for circuit-switched data function read.

**Abortability:** This command may not be aborted.

**Defined values:****<max> parameter description**

<max> (S505)	Description
Integer value (1 byte)	Maximum number of CSDCK attempts (CSDCT)

**<flag> parameter description**

<flag> (S503)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.9 AT\*ESRMOD**

Description	Command	Possible responses
Returns analogue modulation info	AT*ESRMOD	AT*ESRMOD<max>, <flag> OK +CME ERROR:<err> ERROR

*Table 3-20 AT\*ESRMOD action command syntax*

**Description:**

This function is used for analogue modulation function read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S508)	Description
Integer value (1 byte)	Maximum number of MODCK attempts (MODCT)

**<flag> parameter description**

<flag> (S506)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.12.10 AT\*ESRFAX**

Description	Command	Possible responses
Returns G3 fax info	AT*ESRFAX	AT*ESRFAX<max>, <flag> OK +CME ERROR:<err> ERROR

*Table 3-21 AT\*ESRFAX action command syntax*

**Description:**

This function is used for group 3 analogue fax function read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S511)	Description
Integer value (1 byte)	Maximum number of FAXCK attempts (FAXCT)

**<flag> parameter description**

<flag> (S509)	Description
0	Disables
1	Enables

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.12.11 AT\*ESRCELL

Description	Command	Possible responses
Returns cell info	AT*ESRCELL	AT*ESRCELL<max>, <flag>, <rxlevel>, <cell1>, <cell2>, ..<cell6> OK +CME ERROR:<err> ERROR

*Table 3-22 AT\*ESRCELL action command syntax*

**Description:**

The ESRCELL function is used for cell-lock settings read.

**Abortability:** This command may not be aborted.

**Defined values:**

**<max> parameter description**

<max> (S603)	Description
Integer value (1 byte)	Maximum number of OPCK attempts (OPCT)

**<flag> parameter description**

<flag> (S604)	Description
0	Disables
1	Enables

**<rxlevel> parameter description**

<rxlevel> (S605)	Description
Integer (1 byte)	Maximum difference signal strength allowed i.e.15 or 30dB.

**<cell1> to <cell6> parameter description**

<cellx> (S606)	Description
Integer (2 bytes)	Cell identity with list of cells the FWT is allowed to camp in.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13 SLIC Tests

The diagnostics tests the following basic SLIC functionality:

#### 3.1.13.1 AT\*RING

Description	Command	Possible responses
Sets RING command	AT*RING=<freq>, <output>, <waveform>	OK +CME ERROR:<err> ERROR

Table 3-23 AT\* RING action command syntax

#### **Description:**

The RING command is used to start / stop the ringing signal generation. The ringing mode is set to specific frequency, amplitude and waveform before ringing is generated.

**Abortability:** This command may not be aborted.

#### **Defined values:**

##### **<freq> parameter description**

<freq>	Description
0	Ringing is off
16..60	Ringing is on, frequency in Hz

##### **<output> parameter description**

<output>	Description
3..41	Signal output level in dBm

##### **<waveform> parameter description**

<waveform>	Description
0	Sinusoidal waveform
1	Trapezoidal waveform

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

#### 3.1.13.2 AT\*POL

Description	Command	Possible responses
Sets polarity	AT*POL=<value>	OK +CME ERROR:<err> ERROR

Table 3-24 AT\* POL action command syntax

**Description:**

This command sets the current polarity for the 2-wire interface.

**Abortability:** This command may not be aborted.

**Defined values:****<value> parameter description**

<value>	Description
1	VTIP to VRING positive
2	VTIP to VRING negative

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.3 AT\*TONG**

Description	Command	Possible responses
Sets TONG command	AT*TONG=<action>,<freq1>,<level1>,<freq2>,<level2>	OK +CME ERROR:<err> ERROR

*Table 3-25 AT\* TONG action command syntax*

**Description:**

The command generates a simple or double tone. If any of the frequencies is null, the corresponding tone is not generated. If <action> value is 0, no more parameters should be entered.

**Abortability:** This command may not be aborted.

**Defined values:****<action> parameter description**

<action>	Description
0	Off (default)
1	On

**<freq1> parameter description**

<freq1>	Description
200..3000	Frequency of first tone level generation in Hz

**<level1> parameter description**

<level1>	Description
-20..4	First tone signal output level measured in dBm

**<freq2> parameter description**

<freq2>	Description
200..3000	Frequency of second tone level generation in Hz

**<level2> parameter description**

<level2>	Description
-20..4	Second tone signal output level measured in dBm

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.4 AT\*DTDE**

Description	Command	Possible responses
Sets DTMF activation	AT*DTDE=<activation>	OK +CME ERROR:<err> ERROR

*Table 3-26 AT\* DTDE action command syntax*

**Description:**

This command activates and deactivates DTMF detection.

**Abortability:** This command may not be aborted.

**Defined values:**

**<activation> parameter description**

<activation>	Description
0	Deactivated
1	Activated

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.5 AT\*DTDEOUT**

Description	Command	Possible responses
Display of the detected DTMF tone	AT*DTDEOUT=<activation>	OK +CME ERROR:<err> ERROR

*Table 3-27 AT\* DTDEOUT action command syntax*

**Description:**

This command enables/disables the display of the detected DTMF tone on COM 1.

**Abortability:** This command may not be aborted.

**Defined values:****<activation> parameter description**

<activation>	Description
0	Deactivated
1	Activated

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.6 AT\*DTGE**

Description	Command	Possible responses
Sets DTMF tone generation	AT*DTGE=<tone>	OK +CME ERROR:<err> ERROR

*Table 3-28 AT\* DTGE action command syntax*

**Description:**

This function generates a DTMF digit tone.

**Abortability:** This command may not be aborted.

**Defined values:****<tone> parameter description**

<tone>	Description
0..9, *, #, A ..E	DTMF tone

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.7 AT\*INIT**

Description	Command	Possible responses
Sets Initialisation Request	AT*INIT=<reset>, <flag>	OK +CME ERROR:<err> ERROR

*Table 3-29 AT\*INIT action command syntax*

**Description:**

Request to initialise the SLIC.

**Abortability:** This command may not be aborted.

**Defined values:****<reset> parameter description**

<reset>	Description
0	Do not reset hardware upon startup
1	Reset hardware upon startup

**<flag> parameter description**

<flag>	Description
0	Do not wait for application to activate SLIC operation
1	Wait for application to activate SLIC operation

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.8 AT\*OPER**

Description	Command	Possible responses
Sets Operation Request	AT*OPER	OK +CME ERROR:<err> ERROR

*Table 3-30 AT\*OPER action command syntax*

**Description:**

This command requests the full activation of the SLIC.

**Abortability:** This command may not be aborted.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.9 AT\*DIS**

Description	Command	Possible responses
Sets Disable Request	AT*DIS	OK +CME ERROR:<err> ERROR

*Table 3-31 AT\*DIS action command syntax*

**Description:**

Request to disable the SLIC (put it into an idle state). In order to enable SLIC again, the command AT\*INIT can be executed.

**Abortability:** This command may not be aborted.



**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.10 AT\*LPBRK

Description	Command	Possible responses
Sets loopbreak	AT*LPBRK=<value>	OK +CME ERROR:<err> ERROR

Table 3-32 AT\* LPBRK action command syntax

**Description:**

This command sets the loop break on 2W-line interface.

**Abortability:** This command may not be aborted.

**Defined values:**

<value> parameter description

<value>	Description
0	Disable loopbreak
1	Enable loopbreak

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.11 AT\*CID

Description	Command	Possible responses
Set CID	AT*CID=<level>, <seizsz>, <marksz>, <data>	OK +CME ERROR:<err> ERROR

Table 3-33 AT\* CID action command syntax

**Description:**

This command generates specific CID.

**Abortability:** This command may not be aborted.

**Defined values:**

<level> parameter description

<level>	Description
-30..0	Signal Level in dBm (default 1)

**<seizsz> parameter description**

<seizsz>	Description
100..400	Size of seizure period in bits (default 1)

**<marksz> parameter description**

<marksz>	Description
0..255	Size of mark period in bits (default 1)

**<data> parameter description**

<data>	Description
Hexadecimal String	String with hexadecimal characters.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.12 AT\*LFD**

Description	Command	Possible responses
Set Linefeed	AT*LFD=<value>	OK +CME ERROR:<err> ERROR

*Table 3-34 AT\* LFD action command syntax*

**Description:**

This command sets linefeed mode.

**Abortability:** This command may not be aborted.

**Defined values:**

**<value> parameter description**

<value>	Description
1	Open
2	Forward active
3	Forward on-hook transmission
4	TIP Open
5	Ringing
6	Reverse Active
7	Reverse On-hook
8	Ring Open

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.13 AT\*MTR

Description	Command	Possible responses
Set metering	AT*MTR=<freq>, <level>	OK +CME ERROR:<err> ERROR

*Table 3-35 AT\* MTR action command syntax*

**Description:**

This command sets the metering pulse.

**Abortability:** This command may not be aborted.

**Defined values:**

**<freq> parameter description**

<freq>	Description
0	Off
1	12 kHz
2	16 kHz

**<level> parameter description**

<level>	Description
Integer (-30..8 dBm)	Signal Level

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.14 AT\*VBAT

Description	Command	Possible responses
Set battery voltage	AT*VBAT=<lowV>, <highV>	OK +CME ERROR:<err> ERROR

*Table 3-36 AT\* VBAT action command syntax*

**Description:**

This command controls the high and low battery voltage.

**Abortability:** This command may not be aborted.

**Defined values:**

**<lowV> parameter description**

<lowV>	Description
0 to -94.7	Voltage to set in Volts default is -24V)

**<highV> parameter description**

<highV>	Description
0 to -94.7	Voltage to set in Volts (default is -75V)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.15 AT\*LLMT**

Description	Command	Possible responses
Set loop limit	AT*LLMT=<value>	OK +CME ERROR:<err> ERROR

*Table 3-37 AT\* LLMT action command syntax*

**Description:**

This command sets the short circuit loop current limit.

**Abortability:** This command may not be aborted.

**Defined values:**

**<value> parameter description**

<value>	Description
20 to 41	Loop current limit in mA (default is 3)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.16 AT\*LTYPE**

Description	Command	Possible responses
Set load type	AT*LTYPE=<capacity><synthesis>	OK +CME ERROR:<err> ERROR

*Table 3-38 AT\* LTYPE action command syntax*

**Description:**

This command sets the two-wire impedance setting with capacity compensation and 2W impedance synthesis selection.

**Abortability:** This command may not be aborted.

**Defined values:**

**<capacity> parameter description**

<capacity>	Description
0	Off
1	4.7nF
2	10nF

**<synthesis> parameter description**

<synthesis>	Description
0	Off
1	600 Ω
2	900 Ω
3	600 Ω + 2.16 μF
4	900 Ω + 2.16 μF
5	CTR21 (270 Ω + 750 Ω    150 nF)
6	Australia/New Zealand #1 (220 Ω + 820 Ω    120 nF)
7	Slovakia/Slovenia/South Africa (220 Ω + 820 Ω    115 nF)
8	New Zealand #2 (370 Ω + 620 Ω    310 nF)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.17 AT\*ANLG

Description	Command	Possible responses
Set analogue tx and rx gain	AT*ANLG=<Tx>, <Rx>	OK +CME ERROR:<err> ERROR

Table 3-39 AT\* ANLG action command syntax

**Description:**

This command sets the analogue Tx and Rx path gain.

**Abortability:** This command may not be aborted.

**Defined values:**

**<Tx> parameter description**

<Tx>	Description
0	0
1	-3.5dB -Analogue transmit path gain

<Tx>	Description
2	3.5dB -Analogue transmit path gain
3	Muted

**<Rx> parameter description**

<Rx>	Description
0	0
1	-3.5dB -Analogue receive path gain
2	3.5dB -Analogue receive path gain
3	Muted

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.18 AT\*DIG**

Description	Command	Possible responses
Set digital tx and rx gain	AT*DIG=<Tx>, <Rx>	OK +CME ERROR:<err> ERROR

*Table 3-40 AT\* DIG action command syntax*

**Description:**

This command sets the digital Tx and Rx path gain.

**Abortability:** This command may not be aborted.

**Defined values:****<Tx> parameter description**

<Tx>	Description
-6..6	Digital transmit path gain in dB (default 1)

**<Rx> parameter description**

<Rx>	Description
-6..6	Digital receive path gain in dB (default 1)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.19 AT\*SPMUTE

Description	Command	Possible responses
Set speech mute	AT*SPMUTE=<Tx>, <Rx>	OK +CME ERROR:<err> ERROR

Table 3-41 AT\* SPMUTE action command syntax

**Description:**

This command mutes the speech on the receive or transmit path.

**Abortability:** This command may not be aborted.

**Defined values:**

**<Tx> parameter description**

<Tx>	Description
0	Mute Off
1	Mute On

**<Rx> parameter description**

<Rx>	Description
0	Mute Off
1	Mute On

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.13.20 AT\*HOOK

Description	Command	Possible responses
Get hook status	AT*HOOK	HOOKSTS<value> OK +CME ERROR:<err> ERROR

Table 3-42 AT\* HOOK action command syntax

**Description:**

This command gets the current hook status.

**Abortability:** This command may not be aborted.

**Defined values:****<value> parameter description**

<value>	Description
1	Off-hook
2	On-hook

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

**3.1.13.21 AT\*ERRTXT**

Description	Command	Possible responses
Get error text	AT*ERRTXT<errno>	ERRTXT<str> OK +CME ERROR:<err> ERROR

*Table 3-43 AT\* ERRTXT action command syntax*

**Description:**

This command gets the error text of the error number.

**Abortability:** This command may not be aborted.

**Defined values:****<errno> parameter description**

<errno>	Description
Integer	Error number to get the error text for.

**<str> parameter description**

<str>	Description
String	Error text in string format

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.



### 3.1.13.22 AT\*SLICHLP

Description	Command	Possible responses
Get help on SLIC	AT*SLICHLP	SLICHLP AT*POL, AT*RING, AT*TONG, AT*DTDE, AT*DTGE, AT*INIT, AT*OPER, AT*DIS, AT*LPBRK, AT*CID, AT*LFD, AT*MTR, AT*VBAT, AT*LLMT, AT*LTYPE, AT*ANLG, AT*DIG, AT*SPMUTE, AT*HOOK, AT*ERRTXT OK +CME ERROR:<err> ERROR

Table 3-44 AT\* SLICHLP action command syntax

**Description:**

This command returns the all the supported SLIC commands.

**Abortability:** This command may not be aborted.

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.14 Analogue FAX/Data Tests (ADSP)

#### 3.1.14.1 AT\*DRAM

Description	Command	Possible responses
Requests DSP execution of RAM test	AT*DRAM	OK DRAM<memory> +CME ERROR:<err> ERROR

Table 3-45 AT\* DRAM action command syntax

**Description:**

The DRAM command requests to the DSP the execution of a RAM test. All RAM positions are tested. If error, the first memory with error is returned

After test execution, a DSP reset is performed automatically, so other tests can follow this one.

**Abortability:** This command may not be aborted.

**Defined values:**

**<memory> parameter description**

<memory>	Description
1	Data Memory Error
2	Program Memory Error

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, blocking until RAM test completes.

**Implementation:** mandatory.

### 3.1.14.2 AT\*DRST

Description	Command	Possible responses
Download command	AT*DRST	OK +CME ERROR:<err> ERROR

Table 3-46 AT\* DRST action command syntax

**Description:**

The AT\*DRST command resets the ADSP (it will be a hardware reset).

**Abortability:** This command may not be aborted.

**Defined values:** None

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.14.3 AT\*DUAL

Description	Command	Possible responses
Set DSP audio loop	AT*DUAL=<action>	OK +CME ERROR:<err> ERROR

Table 3-47 AT\* DUAL action command syntax

**Description:**

The AT\*DUAL activates/deactivates the DSP audio loop.

**Abortability:** This command may not be aborted.

**Defined values:**

**<action> parameter description**

<action>	Description
0	Deactivation
1	Activation

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.14.4 AT\*DPAGE

Description	Command	Possible responses
Loads DSP page	AT*DPAGE=<page>	OK +CME ERROR:<err> ERROR

Table 3-48 AT\*DPAGE action command syntax

**Description:**

The AT\*DPAGE loads the specified page.

**Abortability:** This command may not be aborted.

**Defined values:****<page> parameter description**

<page>	Description
Hexadecimal: 0..19, 99, FF	Page number to load

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

### 3.1.15 Miscellaneous Tests

#### 3.1.15.1 AT\*LED

Description	Command	Possible responses
Set LED	AT*LED=<number>, <action>	OK +CME ERROR:<err> ERROR

Table 3-49 AT\* LED action command syntax

**Description:**

The LED command allows the control of the various LEDs.

**Abortability:** This command may not be aborted.

**Defined values:****<number> parameter description**

<number>	Description
0	Power LED
1	Status LED

**<action> parameter description**

<action>	Description
0	Off
1	Green On
2	Red On (Power LED only)

**Unsolicited result codes:** not applicable.

**Execution time:** executed immediately, not time critical.

**Implementation:** mandatory.

## APPENDIX A: GLOSSARY

<b>2W-line</b>	<i>Two wire line interface:</i> Used to define 2-wire applications including a plain telephone, fax connection or modem connection.
<b>CSD</b>	<i>Circuit-Switched Data:</i> The traditional technology used for the exchange of data. A circuit connection is made that is exclusively reserved.
<b>CSDCK</b>	<i>CSD+HSCSD Control Key:</i> required for enabling/disabling circuit switched data and fax calls
<b>CSDCT</b>	Maximum number of CSDCK attempts.
<b>DFS</b>	<i>Detailed Functional Specification:</i> Defines completely the functional requirements from the customer perspective of a feature of a product or system. There is a DFS for each primary feature defined in an RFS, but whereas the RFS is specific to a release, a DFS is kept up-to-date throughout the lifecycle of the feature
<b>FAXCK</b>	<i>G3 Fax Control Key:</i> Key required for enabling/disabling G3 fax
<b>FWT</b>	<i>Fixed Wireless Access Terminal:</i> The FWT can function as an access terminal to provide fixed line voice access, basic digital data access (i.e. Internet) and analogue fax and data capabilities.
<b>FLCK</b>	<i>FWT-Lock Control Key:</i> Key required for enabling/disabling the FWT lock.
<b>FLCT</b>	Maximum number of FLCK attempts
<b>GID1</b>	<i>Group Identifier Level 1</i>
<b>GID2</b>	<i>Group Identifier Level 2</i>
<b>GPRS</b>	<i>General Packet Radio Service:</i> A standard for wireless communications which runs at speeds up to 115 kilobits per second, compared with current GSM systems at 9.6 kilobits
<b>GPRSCK</b>	<i>GPRS Control Key:</i> Key required for enabling/disabling GPRS.
<b>GPRSCT</b>	Maximum number of GPRSCK attempts.
<b>GSM</b>	<i>Global System for Mobile communications:</i> The name of a land mobile digital cellular radio-communications system
<b>HSCSD</b>	<i>High-Speed Circuit-Switched Data:</i> A dedicated circuit-switched data communications technology for GSM which boosts data throughput up to 14.4 Kbps in a single channel, and by aggregating channels, up to 57.6 Kbps
<b>IMEI</b>	<i>International Mobile station Equipment Identity:</i> A 15-digit number (composed of four parts) that uniquely identifies an individual wireless phone or communicator.
<b>IMSI</b>	<i>International Mobile Subscriber Identity:</i> The International Mobile Subscriber Identity is a unique identifier allocated to each mobile subscriber in a GSM network.
<b>LAC</b>	<i>Location Area Code:</i> The Location Area Code uniquely identifies a Location Area within a Public Land Mobile Network.
<b>LAI</b>	<i>Location Area Identification:</i> Area identifier comprised of the Mobile Country Code, Mobile Network Code and the Location Area Code.
<b>LIP</b>	<i>Line Interface Part</i>
<b>MCC</b>	<i>Mobile Country Code:</i> The Mobile Country Code is a three digit number uniquely identifying a given country.
<b>ME</b>	<i>Mobile Equipment:</i> Unit (hardware & software) that provides access to the cellular network.

<b>MNC</b>	<i>Mobile Network Code</i> : A two or three digit number used to uniquely identify a given network from within a specified country
<b>MODCK</b>	<i>Analogue Modulations Control Key</i> : Key required for enabling/disabling analogue modulations.
<b>MODCT</b>	Maximum number of MODCK attempts
<b>NCK</b>	<i>Network Control Key</i> : Key required for enabling/disabling network personalisation.
<b>NSCK</b>	<i>Network Subset Control Key</i> : Key required for enabling/disabling network subset personalisation.
<b>NCT</b>	Maximum number of NCK attempts.
<b>NSCT</b>	Maximum number of NSCK attempts.
<b>OTA</b>	<i>Over the Air</i> : A standard for the transmission and reception of application-related information in a wireless communications system
<b>PIN</b>	<i>PIN that the FWT stores for the Automatic PIN function</i> . This PIN might not match the SIM PIN if certain situations take place (SIM changed...)
<b>PLCK</b>	<i>PIN-Lock Control Key</i> : Key required for enabling/disabling the pin lock.
<b>PLCT</b>	Maximum number of PLCK attempts.
<b>SCK</b>	<i>Supervision Control Key</i> : Key required for enabling/disabling OTA supervision
<b>SCT</b>	Maximum number of SCK attempts.
<b>SIM</b>	<i>Subscriber Identity Module</i> : A card commonly used in a GSM phone. The card holds a microchip that stores information and encrypts voice and data transmissions, making it close to impossible to listen in on calls. The SIM card also stores data that identifies the caller to the network service provider
<b>SMS</b>	<i>Short Message Service</i> : A message on digital GSM networks allowing text messages of up to 160 characters to be sent and received via the network operator's message centre to a mobile phone.
<b>SS</b>	<i>Supplementary Services</i>
<b>TE</b>	<i>Terminal Equipment</i>