

| Command     | A1 | A2 | Comment  |
|-------------|----|----|--|
| ATH         | y  | y  | Hang up<br>A1: response OK<br>A2: Response OK -> NO CARRIER  |
| ATA         | y  | y  | Hook off   |
| +CICB       | y  | n  | Incoming Call Bearer   |
| +VTD, +VTS  | y  | y  | Duration n*100ms and DTMF tones 0..9,A..D,*,#  |
| +COPS       | y  | y  | Operator selection   |
| ATDL        | y  | n  | Dial last used number ,useful  |
| +CSQ        | y  | y  | Field strength   |
| +CREG       | y  | y  | Registration   |
| S-Registers | y  | y  | A1/A2 - S0:Rings to Auto-Answer<br>Only A2-S2:Escape-Character<br>Only A2-S3:Carriage Return-Character<br>Only A2-S4:Line Feed-Character<br>Only A2-S5:Backspace-Character<br>Only A2-S12:Escape Code Guard Time<br>no OK from A2 by AT+S0? ( only Content )                                     |
| +VGR, +VGT  | y  | y  | Speaker and microphone gain<br>A1 – VGR/VGT 0..255 - Values larger 255 are accepted<br>A2 – VGR 0..23 – VGT 0..20  |
| +SIDET      | y  | n  | Side tone, A2-MMI implemented, but not as an AT command  |
| +ECHO       | y  | n  | Not working in A1, enough program space in A2 for echo cancellation?   |
| +CGSN       | y  | y  | Serial number  |
| +CGMM       | y  | y  | Model ID   |
| +CGMR       | y  | y  | Software revision  |
| +CGMI       | y  | y  | Manufacturer ID  |
| +GCAP       | y  | y  | capabilities   |
| +CPAS       | y  | y  | Phone activity status  |
| +CPOF       | y  | n  |  |
| +CFUN       | y  | y  | Phone functionality<br>After CFUN=0 A1- Answer for AT-Commands<br>AT -> OK<br>ATZ -> OK<br>AT+CPIN? -> +CPIN: READY – (not OK)<br>A2- Answer for AT-Commands<br>AT -> OK<br>ATZ -> +CME ERROR: 11SIM PIN (and OK)<br>After CFUN=1 A1 - not OK when Phone is ready<br>A2 - OK when Phone is ready |
| +CPIN       | y  | y  | Pin code state   |
| +CLCK       | y  | y  | Phone lock<br>A1: +CLCK? for request Modem or Network facilities<br>A2: +CLCK="SC",2 as Sample for request SIM-Card Parameter  |
| +CPWD       | y  | y  | Password change  |
| +CPBS       | y  | y  | Select Phonebook-Memory Storage  |
| +CPBR       | y  | y  | read from Phonebook - A2 – first Number in Phonebook will be not displayed   |
| +CPBF       | y  | y  | Find Phonebook Entries - A1: ERROR when Entry not found  |
| +CPBW       | y  | y  | Write to Phonebook   |
| +CAOC       | y  | y  | Advice of charge   |
| +CACM       | y  | n  | Call meter   |
| +CAMP       | y  | n  | Call meter maximum   |
| +CPUC       | y  | n  | Price per unit and currency  |
| +CSMS       | y  | y  | Message service  |
| +CPMS       | y  | y  | Message store, Hopefully soon flash space for not using SIM card for storage<br>A2 – Response1= READ<br>Response2= WRITE<br>Response3= Cell-Broadcast  |
| +CMGF       | y  | y  | Message format   |
| +CSAS       | y  | y  | Save SMS settings  |
| +CRES       | y  | y  | Restore SMS settings only  |
| +CSDH       | y  | y  | Show text mode parameters  |
| +CSMP       | y  | y  | Set text mode parameters   |

|           |   |   |  |
|-----------|---|---|--|
| +CSCS     | y | y | Character set used<br>A1-only PCCP437 available<br>A2-GSM,IRA,PCCP437 usable   |
| +CNMI     | y | y | Message indication<br>A1-+CNMI: (0-3),(0-3),(0,2),(0,1),(0,1)<br>A2-+CNMI: (0-3),(0-3),(0,2),(0,1),(0,1)   |
| +CMGR     | y | y | Message read   |
| +CMGL     | y | y | Message list<br>A1in Text-Mode: +CMGL=0..4<br>A2 in Text-Mode: +CMGL="REC UNREAD"<br>+CMGL="REC READ"<br>+CMGL="STO UNSENT"<br>+CMGL="STO SENT"<br>+CMGL="ALL"   |
| +CMGS     | y | y | Message send   |
| +CMGD     | y | y | Message delete   |
| +CSCA     | y | y | Service center<br>A1: +CSCA=1234567 or +CSCA="1234567"<br>A2: +CSCA="1234567"  |
| +CSCB     | y | y | Cell broadcast missing   |
| +CCFC     | y | y | Call forwarding  |
| +CLCK     | y | y | Call barring   |
| +CCWA     | y | y | Call waiting   |
| +CLIR     | y | n | Incoming call restriction  |
| +CLIP     | y | n | Incoming call presentation   |
| +COLP     | y | n | Outgoing call presentation   |
| +CBST     | y | y | Bearer service<br>A1: +CBST: (0-8,65,66,68,70,71),(0),(0,1,100,101)<br>A2: +CBST: (0-2,4,6-7,65-66,68,70-71),(0),(0-1)   |
| +CR, +CRC | y | y | Call report  |
| ATE       | y | y | Serial link echo mode  |
| ATQ       | y | y | Serial link result code  |
| +IPR      | y | y | Serial link baud rate<br>A1: +IPR: (),(300,1200,2400,4800,9600,19200,38400,57600,115200)<br>A2: +IPR: (),(300,600,1200,2400,4800,9600,14400,19200)   |
| ATO       | y | y | Back to online mode  |
| ATV       | y | y | Serial link response mode  |
| +ICF      | y | y | Serial link parameters<br>A1: +ICF: (1-6),(0-4)<br>A2: +ICF: (1,3-5),(0-1,4)   |
| A/        | y | n | Repeat last command  |
| ATZ       | y | y | Default configuration  |
| +IFC      | y | y | DTE-DCE local flow control<br>A1: +IFC: (2),(2) – only RTS/CTS<br>A2: +IFC: (0,2),(0,2)  |
| &C        | y | y | DCD signal   |
| &D        | y | y | DTR signal   |
| &S        | y | n | DSR signal – not for A2  |
| &W        | y | n | Save modem settings  |
| +CRLP     | y | y | Radio link parameters<br>A1: +CRLP: (0-61),(0-61),(48-255),(6-255)<br>A2: +CRLP: (0-61),(0-61),(39-255),(1-255)  |
| +CMEE     | y | y | Report last error  |
| +CEER     | y | y | Extended error messages<br>A1: +CEER: Error 0<br>A2: +CEER: 31   |
| +CKPD     | n | y | SendKey's to MMI<br>AT+CKPD="0" – is the same as press "1" on Keypad<br>AT+CKPD="9" – is the same as press "9" on Keypad<br>AT+CKPD="U" – is the same as press "Arrow Up" on Keypad<br>AT+CKPD="D" – is the same as press "Arrow Down" on Keypad<br>AT+CKPD="*" – is the same as press "*" on Keypad<br>AT+CKPD="#" – is the same as press "#" on Keypad<br>AT+CKPD="M" – is the same as press "MENU" on Keypad<br>AT+CKPD="S" – is the same as press "SEND" on Keypad<br>AT+CKPD="E" – is the same as press "END" on Keypad |

