

Manual Reference

Modem Commands

for the SIEMENS Mobile Phone

S25

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Revisions Overview

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1. AT Command Set

A command entered at the user port generally starts with a command prefix consisting of the characters 'AT'. The remainder of the line is interpreted as a sequence of the commands described below. The commands are not case-sensitive. More than one command may be given on a single line.

With all commands in Table 1 that take a numeric argument this argument may be omitted and defaults to 0.

The ATD command is special: all characters in the same line (or up to a semicolon) are considered part of the number to dial.

The prefix 'A/' repeats the preceding command.

Command	Description
A/	Repeat the last command string.
+++	Escape sequence, switches to command mode during call
AT	Prefix for all other commands

Command	Function (default values in bold type)	Implementation comments	Reference
A	Answer a call		V.25 <i>ter</i>
B[n]	Sets the bearer service for data connections (cf. +CBST). Parameters: 7 2400 bps, asynchronous, V.22bis 11 4800 bps, asynchronous, V.32 13 9600 bps, asynchronous, V.32 25 2400 bps, asynchronous, V.110 ISDN 27 4800 bps, asynchronous, V.110 ISDN 29 9600 bps asynchronous, V.110 ISDN 99 Call: Automatic selection of the operation mode in accordance with the baud rate of the PC. Answer: All calls are accepted.		DNT
Dx[:]	Dial phone number x. Some prefixes not defined in V.25 <i>ter</i> are recognised: I ISDN: This phone call		V.25 <i>ter</i> , GSM 07.07

Command	Function (default values in bold type)	Implementation comments	Reference
	<p>will be made as a 'UDI' call. An ISDN connection to a V.110 terminal adapter will be established. The data transmission speed is the same as for an 'analog' call (2400 / 4800 / 9600 / 14400 bps).</p> <p>P Plus: same as '+' P character.</p>		
E[n]	Command echo		V.25 <i>ter</i>
H[n]	Disconnect existing link		V.25 <i>ter</i>
I[n]	<p>Display product code</p> <p>0 '032'</p> <p>1 '032'</p> <p>2 'OK', (check firmware checksum)</p> <p>8 Display supported operation modes (cf. ATB)</p> <p>9 identification of modem and mobile phone</p>		
L[n]	Monitor speaker loudness	No action	V.25 <i>ter</i>
M[n]	Monitor speaker mode	No action	V.25 <i>ter</i>
O[0]	Switch back to transparent mode after +++ interruption		V.25 <i>ter</i>
Q[0]	Display responses or messages		V.25 <i>ter</i>
Q1	Don't display responses or messages		V.25 <i>ter</i>
S <i>n</i> = <i>x</i>	Write value <i>x</i> to S register <i>n</i>		V.25 <i>ter</i>
S <i>n</i> ?	Display value of S register <i>n</i>		V.25 <i>ter</i>
V[0]	Responses in numeric format		V.25 <i>ter</i>
V1	Responses in text format		V.25 <i>ter</i>
X	Report link with CONNECT only ignore busy signal		V.25 <i>ter</i>
X1	Report link with CONNECT plus baud rate, ignore busy signal		V.25 <i>ter</i>
X2	As ATX1		V.25 <i>ter</i>

Command	Function (default values in bold type)	Implementation comments	Reference
X3	As ATX1, but report BUSY		V.25 <i>ter</i>
X4	As ATX3		V.25 <i>ter</i>
Z	Reset to default configuration		V.25 <i>ter</i>
&C[n] &C0 &C1	Circuit 109 (Received line signal detector / DCD) behaviour DCD always ON DCD ON if carrier detected		V.25 <i>ter</i>
&D[n] &D0 &D1 &D2	Circuit 108 (Data terminal ready / DTR) behaviour DTR ignored On DTR ON to OFF: go to online command mode, don't disconnect On DTR ON to OFF: disconnect go to command mode. Automatic answer is disabled while DTR OFF.		V.25 <i>ter</i>
&F	Load factory defaults		V.25 <i>ter</i>
&V	Display current configuration profile	customisable	
&Wn	No action		
&Yn	No action		
&Zn=x	No action		
\A	No action		
\A1	No action		
\A2	No action		
\A3	No action		
\C	No action		
\C1	No action		
\G	No action		
\G1	No action		
\N	No action		
\N2	No action		
\N3	No action		
\N4	No action		
\N5	No action		
\N6	No action		
\Q[n]	Local flow control selection (DTE ↔ DCE)	customisable	

Command	Function (default values in bold type)	Implementation comments	Reference
\Q0 \Q1 \Q2 \Q3	Disable flow control XON-XOFF software flow control CTS only flow control RTS/CTS flow control		
\S	Display monitored variables		DNT
\V{n}	n = 0 No /REL or /RLP appendix with the 'connect' message n = 1 /REL or /RLP appendix with the 'connect' message		DNT
%An	No action		
%C	No action		
%C1	No action		
%Dn	No action		
^S...	Routed to MS	See <i>gsatxsie.c</i> .	DNT, Siemens

Table 1: Basic AT Commands

The commands in Table 2 are used to configure the modem .All other AT commands specified by leading +C are described in the **AT Command Set Reference Manual**.

Command	Function, defaults	Implementation comments	Reference
+CBST	7,0,1 (9600 bps)		GSM07.07
+CRLP	61,61,58,6		GSM07.07
+CR	0		GSM07.07

Table 2: Local AT+C (Cellular) Commands

S-Register	Function (default values in bold type)			
S 0	The number of rings before the Gipsy Soft answers the call (Default: 0, does not answer)			
S 3	Command termination character and first character of response trailer (CR)			
S 4	Second character of response trailer (LF)			
S 6	Editing character; erases the previous character (BS)			
S 6	Escape character			
S 7	Wait for carrier after dialling (in seconds). (Default: 60)			
S 8 + S 9	No Action			
S 10	Delay between Lost Carrier and Hang up in 0.1 sec. (Default 2 = 200ms)			
S 11 .. S17	No Action			
S 18	Bit			
	0	0	no GSM exit cause	1 with GSM exit cause
	1	0	no SMS Indication '+C...'	1 with incoming SMS Indication '+C..'
S 19 ... S99	No Action			

Table 3: S-Registers