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You can read the recommendations in the user guide, the technical guide or the installation guide for SAGEM HILO. You'll find the answers to all your questions on the SAGEM HILO in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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AT COMMAND SET
HILO/HILONC PRODUCTS RANGE



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SAGEMCOM



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Manual abstract:

*Update a syntax error in psrdb5 : DCS1800 instead of PCS1800 1. @@2. @@2.Add flash file download/upload example for FTP client example. 3.Add new ftp error code for flash access trouble. 1 Add +CGEQMIN/+CGEQREQ/CGSMS 2 Delete +KSGV 3 Correct some mistake. Add MMS AT commands
Modification on CRES/VTS/KCNXCFG 3 24/06/08 URD1 OTL 5635.1 008 / 70248 URD1 OTL 5635.1 008 / 70248 URD1 OTL 5635.
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05/08/08 4 4 4 4 06/08/08 11/08/08 25/08/08 26/08/08 23/09/08 URD1 OTL 5635.1 008 / 70248 URD1 OTL 5635.
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URD1 OTL 5635.1 008 / 70248 28/10/2008 URD1 OTL 5635.1 008 / 70248 30/10/2008 URD1 OTL 5635.*

*1 008 / 70248 4 4 4 4 4 Modification on ATO Add example for MMS 1.Add DTR/AT&D/+++ description for +KFTPCRV and +KFTPSND 2.Add server IP
parameters for +KFTPDRUN 1 Modify the note of command KSMTPUL. 2 Modify the sample code of SMTP and POP3 3 Update command format of FRS and
FTS Update the command KFSFILE Add APPENDIX13 Correct some mistakes in advanced cmds. Modify CSGT command Modify Appendix 13 Remove
"new" and "new2" words Remove CGEQMIN and CGEQREQ (3G) Change SA to COMMUNICATIONS Change logo Add SMS table for +CPMS Add some
information for +KFSFILE 1.Add memory full error code for ftp flash download. 2.Add how many session for ftp user and ftp server. 3.Add how many user
connection for ftp server.
4.Add ftp server example. 5.Correct several error. Change MUX capabilities Add description for DTR/+++ for SMTP/POP3 Modify syntax of POP3
command in sample.
Add antenna detection command +KGSMD "ftp" is the only valid URI for ftp server root directory. Delete *PSINFN; Add KMCLASS Modification on
KSLEEP Modification on KGSMD Modification on CRMP Add temperature monitor command +KTEMPMON Add SIM detection command +KSIMDET
1.Modify +KFTPDEL 2.Add DCD and DTR description for ftp client 4 4 4 07/11/2008 URD1 OTL 5635.1 008 / 70248 13/11/2008 URD1 OTL 5635.
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5635.1 008 / 70248 5 5 5 5 22/12/2008 URD1 OTL 5635.1 008 / 70248 06/01/2009 URD1 OTL 5635.1 008 / 70248 07/01/2009 URD1 OTL 5635.*

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1 008 / 70248 06/03/2009 URD1 OTL 5635.1 008 / 70248 10/03/2009 URD1 OTL 5635.1 008 / 70248 4/04/2009 URD1 OTL 5635.1 008 / 70248 Add notes
for CGDATA Delete CRMC command Modification on CRMP KTCPCLOSE <closing_type>=0 not support Add note for CPIN? 30s answer if card
extraction Add new AT cmd + KSYNC Change *PSSTKI explanation Modify the notes of +KSYNC Modify pattern things for TCP/UDP cmds Change the
formula for BUZZER frequency and its range. See +KPWM Add new parameters for +KSYNC command. Add +KFILTER command Make +KSYNC generate
signal through PWM0 or PWM1 Modify KTEMPMON, KGSMD, KSIMDET APPENDIX 13. QA FOR ADVANCED AT COMMAND +++ for FTP Delete
10.11 CGSMS duplicated with 10.10 Change +KTEMPMON CFUN <fun> from 1-4 Add TA for +KCELL Add some note for KGPIO and KPWM Change
response description after DTR off for +KFTPCRV and +KFTPSND Add +CSNS command Modify the cid range for +CGPADDR IPR: Del unsupported
baudrate; SIMDET: note for GPIO CLIP:/CHUP CSMP:add example Add +KBND command Add +KTCPSTART Add KTCPSTAT Add +KURCCFG Add
example in Appendix: A6.*

*3, A6.4 and A6.5 Change TCP example : value 16 replace by 18 Add information about TA in KCELL Update example of +CPMS 7 7 21/04/2009 URD1 OTL
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3.3, 3.4. A/ Command: Repeat previous command line .

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..20 +++ Command: Switch from data mode to command mode ...

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..21 O Command: Switch from command mode to data mode

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.....22 E Command: Enable command echo .

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....23 Q Command: Set result code presentation mode .

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.....24 S0 Command: Set number of rings before automatically answering the call...

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.25 S2 Command: Set character for the escape sequence (data to command mode)

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.....26 S3 Command: Command line termination character

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...27 S4 Command: Set response formatting character.....

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28 S5 Command: Write command line editing character

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.....29 S7 Command: Set number of seconds to wait for connection completion....

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30 V Command: TA response format

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..31 X Command: Result code selection and call progress monitoring control ...

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32 &C Command: Set circuit Data Carrier Detect (DCD) function mode

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....33 &D Command: Set circuit Data Terminal Ready (DTR) function mode

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34 &F Command: Restore manufactory configuration.....

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.35 &W Command: Save stored profile.....

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.36 &V Command: Display current configuration
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..37 PR Command: Set fixed local rate..
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.....38 B: Data rate selection .

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.....39 \N: Data transmission mode..

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.....40 &K Command: Flow control option.....

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.41 L Command: Monitor speaker loudness.....

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.....42 M Command: Monitor speaker mode ...

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.....43 S6 Command: Pause before blind dialing..

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.44 S8 Command: Comma dial modifier time...

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45 S10 Command: Automatic disconnect delay

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..46 N Command: Negotiate handshake option ...

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...47 S1 Command: Ring count..

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48 S11 Command: DTMF Dialing speed

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.....49 W Command: Extended result code ...

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50 &S Command: DSR option

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51 &R Command: RTS/CTS option

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+CGMR Command: Request revision identification

.....57 +CGSN Command: Request product serial number identification (IMEI)

58 +KGSN Command: Request product serial number identification and Software Version

.....59 +CSCS Command: Set TE character set....

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.....60 +CIMI Command: Request international subscriber identity

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.....61 +GCAP Command: Request complete TA capability list.

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.62 +GMI Command: Request manufacturer identification

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.....63 +GMM Command: Request model identification.....

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.64 +GMR Command: Request revision identification....

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....65 +GSN Command: Request product serial number identification (IMEI) identical to GSN

..66 +CMUX Command: Multiplexing mode ...

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67 #CLS Command: Service Class

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.68 *PSLOCUP Command:

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...69 *PSCSCN Command: Call State Change Notification ..

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70 *PSFSNT Command: Field Strength Notification with Threshold

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.73 *PSSSURC Command:

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.....74 *PSALS Command: Alternate Line Service..

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.....75 *PSDCIN Command: Diverted Call Indicator Notification .

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...76 * PSMBNB Command: Mailbox Numbers

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.....77 *PSCSP Command: Customer Service Profile ...

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..78 *PSSEAV Command: Service Availability

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.....79 *PSCRHU Command: Channel Registration URC

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....80 *PSCSSC Command: Call Successful setup control.....

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.....81 *PSSMPH Command: SIM Phase ..

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.....82 *PSCIPH Command: Ciphering notification...

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.....83 A Command: Answer a call...

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84 H Command: Disconnect existing connection

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.....85 D Command: Mobile originated call to dial a number ..

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....86 D>: Direct dialing from phonebook.

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...87 +CHUP Command: Hang up call

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.....88 +CRC Command: Set Cellular Result Codes for incoming call indication ...

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.....89 +CSTA Command: Select type of address....

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..90 +CMOD Command: Call mode...

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91 +CEER Command: Extended error report

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..92 +CVHU Command: Voice hang up control...

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....95 +KFILTER Command: Make a filter on incoming call.

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..96 +CSNS Command: Single Numbering Scheme

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.....97 +KATH Command: Choose ATH Mode

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...98 +CACM Command: Accumulated call meter (ACM) reset or query

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.....99 +CAMM Command: Accumulated call meter maximum (ACM max) set or query.....

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100 +CCWE Command: Call Meter maximum event.....

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101 +CALA Command: Set alarm time.....

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.....105 +CIND Command: Indicator control....

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..106 +CLAC Command: List all available AT commands

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.....107 +CMEC Command: Mobile Equipment control mode.

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108 +CFUN Command: Set Phone Functionality.....

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..109 +CMER Command: Mobile Equipment event reporting ...

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....110 +CMEE Command: Report Mobile Termination error.....

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.....111 +CMUT Command: Mute control.



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...112 +CPIN Command: Enter pin

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....113 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 10 / 382 CALL CONTROL COMMANDS.

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.84 MOBILE EQUIPMENT CONTROL AND STATUS COMMANDS.....

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6.18. 6.19. *PSRAS Command: Pin Remaining Attempt Status .

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.....114 +CPUC Command: Price per unit and currency table.

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.....115 +CPWC Command: Power class.

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.....116 *PSRDBS Command: Change Frequency Band class ...

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.....117 +CPAS Command: Phone Activity Status

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.....118 +CSQ Command: Signal quality ...

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.....119 +KRIC Command: Ring indicator control

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.....120 +KSREP Command: Mobile start-up reporting ...

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...121 +KGPIO Command: Hardware IO Control .

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122 +KSLEEP Command: Power Management Control

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....124 +KCELL Command: Cell Environment Information

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...125 +CRMP Command: Ring Melody Playback ..

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..127 *PSVMWN Command: Voice Message Waiting Notification...

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.128 +CRSM Command: SIM Restricted Access....

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129 +KPWM Command: PWM control

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.131 +KGPIOCFG Command: user GPIO configuration.....

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..132 +KADC Command: analog digital converter...

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....133 +CSIM Command: Generic SIM access.

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134 +CALM Command: Alert sound mode.....

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.....135 +CRSL Command: Ringer sound level ..

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....136 +CLAN Command: Set Language.....

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137 +CSGT Command: Set Greeting Text

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.....138 +CSVM Command: Set Voice Mail Number.

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.....139 +KGSMD Command: Antenna Detection ..

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.....140 +KMCLASS Command: Change GPRS Multislot class..

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.....142 +KTEMPMON Command: Temperature Monitor

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.....143 +KSIMDET Command: SIM Detection.....

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.....147 +KNETSCAN Command: Network scan functionality .

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....148 +KCELLSCAN Command: Cell scan functionality .

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.....151 +KJAMDET Command: Jamming Detection

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..153 +KUART Command: Set number of bits for UART.....

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...155 +KSAP Command: Remote Sim Access functionality ..

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....157 +KEFA Command: Deployment package signature verification and firmware upgrading.....159 +CAOC Command: Advice of charge information .

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.....162 +CCWA Command: Call waiting

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.....164 +CUSD: Unstructured Supplementary Service Data .

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.....174 +COPN Command: Read operator name ..

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.....178 +CREG Command: Network registration.

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..179 +CSSN Command: Supplementary service notification.....

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.....180 +CPLS Command: Selection of preferred PLMN list ..

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..206 +CMGS Command: Send SMS message ...

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.214 +CPMS Command: Preferred Message Storage

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.215 +CSDH Command: Show text mode parameters....

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.218 +CRES Command: Restore settings....

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.241 +CGPADDR Command: Show PDP address....

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...242 +CGQMIN Command: Quality of service profile (minimum acceptable) ..

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...245 +CGREG Command: GPRS network registration status

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.....246 +CGSMS Command: Select service for MO SMS messages ..

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.....248 *PSGCNT Command: GPRS counters

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.....250 *PSSTKI Command: SIM ToolKit Interface configuration .

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..252 *PSSTK Command: SIM Toolkit command ...

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..253 *PSSTK URC: SIM Toolkit unsolicited result code....

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.255 +CLVL Command: Loudspeaker volume level....

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..261 +KVGR Command: Receive Gain Selection...

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.....250 AUDIO COMMANDS .



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....294 13.6.2. *+KFTPSTAT: FTP Server Status....*

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.....313 13.9.3. +KPOPREAD: Download A Mail .

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.....320 13.10.4. +KHTTPHEAD: Get the head of the information from HTTP server..

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.....321 13.10.5. +KHTTPPOST: Send data to HTTP server .

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.....324 +KFSFILE: Flash file operation command....

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.....329 +KPSR Command: Reading an Object .

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.332 +KPSW Command: Writing an object...

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..334 +KPSEND Command: Send MMS.....

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..335 +KPSCAP Command: Retrieving MOBILE capabilities....

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.....336 +KMMRET Command: Retrieve MMS

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.....*362 Client mode*

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362 Server mode

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..382 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 15 / 382 1. INTRODUCTION 1.

1. Scope of the document This document presents the AT Command Set of the SAGEMCOM HILO HILONC V1 & V2 modules. Each AT command is described and if necessary the standard reference is noted. (e.g.

: 27.007] §7.5). Some AT command are SAGEMCOM proprietary; in this case it is clearly indicated. Please refer to section Appendix 5 for the extensive list. 1.2. Reference documents [04.08] [22.022] [27.

005] [27.007] [V25ter] [SIM] [21.905] GSM 04.08 (6.7.1) Mobile radio interface layer 3 specification (Release 1997) 3GPP 22.022 (3.1.0) - Personalization of Mobile Equipment (ME); Mobile functionality specification (Release 1999) 3GPP 27.005 (5.

0.0) Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) 3GPP 27.007 (6.0.0) - AT command set for User Equipment (UE) (Release 6) ITU-T Recommendation V.

25 ter - Serial asynchronous automatic dialing and control Specification of the Subscriber Identity Module Mobile Equipment (SIM ME) interface. (GSM 11.11 version 8.3.0 Release 1999) 3GPP 21.

905 (9.4.0) Vocabulary for 3GPP Specifications (Release 9) Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 16 / 382 1.3. Reference configuration Reference Configuration The User Equipment (UE) consists of the mobile equipment (ME) and the (U)SIM. Messages may be stored in either, but the present document does not distinguish between messages stored in the (U)SIM or in the ME. The management of message storage in the two parts of the UE is a matter for the UE implementation.



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1.4.

AT Command principle The 'AT' or 'at' prefix must be set at the beginning of each line. To terminate a command line, a <CR> character must be inserted. Commands are usually followed by a response that includes '<CR><LF><response><CR><LF>'. Throughout this document, only the responses are indicated, the <CR> and <LF> characters are omitted intentionally. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 17 / 382 Four kinds of extended AT commands are implemented: Test Command AT+CXXX=? Read Command Write Command Execution command AT+CXXX? AT+CXXX=<...> AT+CXXX The equipment returns the list of parameters and values ranges set with the with the corresponding Write command or by internal processes. This command returns the currently set value of parameters. This command sets user-related parameter values. The execution command reads nonvariable parameters affected by internal processes in the equipment.

1.4.1.

Parameters In this document, the default parameters are underlined and the optional parameters are enclosed in square brackets. Optional parameters or sub-parameters can be omitted unless they are followed by other parameters. A parameter in the middle of a string can be omitted by replacing it with a comma. When the parameter is a character string, the string must be enclosed in quotation marks. All space characters will be ignored when using strings without quotation marks.

1.4.2. Possible answers There is always an answer sent by the TA to an AT Command line (except the very special case of a TA setup for no answer, see ATQ). The answer is always terminated by an indication of success or failure. However, regarding the setup of the TA (by AT Commands), the message may be different. Classical messages: Extended Error message (see AT+CME): OK or ERROR +CME ERROR: <n> (See Appendix for the different values for <n>) Numeric Mode (see ATV) : <n> with: <n> = 0 OK or <n> is an error code Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 18 / 382 1.4.3.

Multiple AT commands on the same command line You may enter several AT commands on the same line. This eliminates the need to type the "AT" or "at" prefix before each command and to wait for the answer for each command. The main advantage is to avoid losing bandwidth on the link between DTE and the Module. There is no separator between two basic commands but a semi-colon character is necessary between two extended commands (prefix +). The command line buffer accepts a maximum of 391 characters. If this number is exceeded none of the commands will be executed and TA returns ERROR. If a command is not supported, then the treatment of the line is stopped (i.e. the following ones are not treated) and an error message is returned. Example:

Command: Answer: ATZ&K3+CBST=7,0,1;+CBST? +CBST=7,0,1 OK 1.

4.4. AT Commands on separate lines When you enter a series of AT commands on separate lines, it is strongly advised to leave a pause between the preceding and the following command until the final answer (OK or Error message) appears. This avoids sending too many AT commands at a time without waiting for a response for each. 1.

5. Modification of this document The commands described in this document are subject to change without notice, and shall only be used as for usual AT commands use. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 19 / 382 2. V25TER AT COMMANDS 2.

1. A/ Command: Repeat previous command line A/ Repeat previous command line Execute command Syntax A/ Response Depend on the previous command Parameters None Reference V.25Ter Notes · Line does not need to end with terminating character Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 20 / 382 2.2. +++ Command: Switch from data mode to command mode +++ Switch from data mode to command mode Execute command Syntax +++ Response This command is only available during data mode. The +++ characters sequence causes to suspend the data flow over the AT interface and switch to command mode. This allows entering AT commands while maintaining the data connection to the remote device. OK Parameters None Reference V.25Ter Notes · To return to data mode, use the ATO[n] command · Line needs one second silent before and one second after (do not end with terminating character) · The "+" character may be changed with the AT\$2 command (see following chapters) Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 21 / 382 2.3. O Command: Switch from command mode to data mode ATO Switch from command mode to data mode Test command Syntax ATO[<n>] Response TA returns to data mode from command mode: CONNECT <text> If connection is not successfully resumed NO CARRIER Parameter <n>: 0: switch from command mode to data mode 1-65535: session ID, See "Protocol specific commands (TCP/UDP/FTP...)" Reference V.25Ter Notes · ATO is the alternative command to the +++ escape sequence described in Chapter 2.2: When you have established a data call and TA is in command mode, ATO causes the TA to resume the data connection and return to data mode. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 22 / 382 2.

4. E Command: Enable command echo ATE Enable command echo Execute command Syntax ATE[<value>] Response OK Parameters <value>: 0 : Echo mode off 1 : Echo mode on Reference V.25Ter Notes · This setting determines whether or not the TA echoes characters received from TE during command state Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 23 / 382 2.5.

Q Command: Set result code presentation mode ATQ Set result code presentation mode Execute command Syntax ATQ[<n>] Response OK (if <n> = 0) Nothing (if <n> = 1) Parameters <n>: 0: result codes transmitted by TA 1: no result code transmitted by TA Reference V.25Ter Notes · Specifies whether or not the TA transmits any result code to the TE. Information text transmitted in response is not affected by this setting. Note d'étude / Technical document : URD1 OTL 5635.



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6. S0 Command: Set number of rings before automatically answering the call ATSO Set number of rings before automatically answering the call Read command Syntax ATSO? Response <n> OK Write command Syntax ATSO=<n> Response OK Parameters <n>: 0: automatic answering deactivated 1-255: number of rings before automatically answering Reference V.25Ter Notes · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 25 / 382 2.7. S2 Command: Set character for the escape sequence (data to command mode) ATS2 Set character for the escape sequence (data to command mode) Read command Syntax ATS2? Response <n> OK Write command Syntax ATS2=<n> Response OK Parameters <n>: only 43 ("+") is supported Reference V.25Ter Notes · The default character is "+" (043) and cannot be changed. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 26 / 382 2.

8. S3 Command: Command line termination character ATS3 Command line termination character Read command Syntax ATS3? Response <n> OK write command Syntax ATS3=<n> Response OK Parameters <n>: 13: command line termination character<CR>: carriage return. Reference V.25Ter Notes · This parameter determines the character recognized by TA to terminate an incoming command line (13 = <CR> by default); it cannot be changed. · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 27 / 382 2.9. S4 Command: Set response formatting character ATS4 Set response formatting character Read command Syntax ATS4? Response <n> OK Write command Syntax ATS4=<n> Response OK Parameters <n>: 10: response formatting character <LF>: line feed. Reference V.

25Ter Notes · This parameter determines the character recognized by TA to terminate answer line (10 = <LF> by default); it cannot be changed · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 28 / 382 2.10. S5 Command: Write command line editing character ATS5 Write command line editing character Read command Syntax ATS5? Response <n> OK write command Syntax ATS5=<n> Response OK Parameters <n>: 1. .255: number of second to wait for connection completion Reference V.25Ter Notes · This parameter determines the character recognized by TA to terminate an incoming command line (8 = <backspace> by default); it cannot be changed. · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 29 / 382 2.11. S7 Command: Set number of seconds to wait for connection completion ATS7 Set number of seconds to wait for connection completion Read command Syntax ATS7? Response: <n> OK Write command Syntax ATS7=<n> Response: OK Parameters: <n>: 1...255: number of second to wait for connection completion Reference V.25Ter Notes · See also AT&V for default values of this parameter · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 30 / 382 2.12.

V Command: TA response format ATV TA response format Execute command Syntax ATV[<value>] Response 0 (When numeric mode activated) OK (When verbose mode activated) Parameters <value>: 0: Short result code format: <numeric code>. 1: Long result code format: <verbose code> Reference V.25Ter Notes · Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 31 / 382 2.13. X Command: Result code selection and call progress monitoring control ATX Result code selection and call progress monitoring control Write command Syntax ATX[<value>] Response OK Parameters <value>: 0 : CONNECT result code only returned, dial tone and busy detection are both disabled 1 : CONNECT<text> result code only returned, dial tone and busy detection are both disabled 2 : CONNECT<text> result code returned, dial tone detection is enabled, busy detection is disabled 3 : CONNECT<text> result code returned, dial tone detection is disabled, busy detection is enabled 4 : CONNECT<text> result code returned, dial tone and busy detection are both enabled Reference V.25Ter Notes · See Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 32 / 382 2.

14. &C Command: Set circuit Data Carrier Detect (DCD) function mode AT&C Set circuit Data Carrier Detect (DCD) function mode Execute command Syntax AT&C<value> Response OK Parameters <value>: 0 : DCD line is always active 1: DCD line is active in the presence of data carrier only. Reference V.25Ter Notes · Data stored by &W for default value. Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 33 / 382 2.15. &D Command: Set circuit Data Terminal Ready (DTR) function mode AT&D Set circuit Data Terminal Ready (DTR) function mode Execute command Syntax AT&D<value> Response OK Parameters <value>: 0: 1: 2: TA ignores status on DTR. DTR drop from active to inactive: Change to command mode while retaining the connected data call. DTR drop from active to inactive: Disconnect data call, change to command mode.

During state DTR inactive auto-answer is off. Reference V.25Ter Notes · The command AT&D only applies to data calls. Thus, a DTR drop from active to inactive in AT&D2 mode will not hang up a voice call. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 34 / 382 2.16. &F Command: Restore manufactory configuration AT&F Restore Manufactory configuration Execute command Syntax AT&F[<value>] Response OK Parameters <value>: 0: Restore parameters to manufactory values Reference V.



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25Ter Notes · See also AT&V · Restore manufactory values to active profile Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 35 / 382 2.

17. &W Command: Save stored profile AT&W Save stored profile Execute command Syntax AT&W Response OK Reference SAGEMCOM Proprietary Notes · This command saves the current configuration in a non erasable place. · See also AT&V · The default stored profile may be adapted for customer needs.

Configuration saved : E: Echo Q: Set result code presentation mode V: Verbose X: Extended result code &C: DCD control &D: DTR behavior &R: RTS control &S0 DSR control &K0 Flow control FCLASS: FCLASS S0: Set number of rings before automatically answering the call S3: Write command line termination character S4: Set response formatting character S5: Write command line editing character S7: Set number of seconds to wait for connection completion S8: Comma dial modifier time S10: Automatic disconnect delay Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 36 / 382 2.18. &V Command: Display current configuration AT&V Display current configuration Execute command Syntax AT&V[<value>] Response ACTIVE PROFILE: <current configuration> STORED PROFILE 0: <user default configuration> STORED PROFILE 1: <manufactory configuration> OK Parameters <value>: 0: display Active profil 1: display Stored profile. Omitted: display all profile (active profile and stored profile) Reference SAGEMCOM Proprietary Notes · At startup, Stored profile is copied to the Active profile · The configuration is a text string on multiple lines as shown in the example below. This string may vary depending on the manufactory, the product and the user setup. Example: E1 Q0 V1 X4 &C1 &D1 &R1 &S0 +IFC= 0,2 &K0 +FCLASS0 S00:0 S03:13 S04:10 S05:8 S07:50 S08:2 S10:14 · This command indicates the result of certain actions as shown below: Active Profile ATZ Stored profile AT&W AT&F Default Settings Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 37 / 382 2.19. PR Command: Set fixed local rate AT+IPR Set fixed local rate Test command Syntax AT+IPR=? Response +IPR: (list of supported auto-detectable <rate>s), (list of supported fixed-only <rate>s) OK Read command Syntax AT+IPR? Response +IPR: <rate> OK Write command Syntax AT+IPR=<rate> Response OK Parameters <rate>: bit rate per second 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 0 =Autobaud Reference V.25ter Notes · The speed is modified after sending the answer · With AUTOBAUD only capital letters for AT commands have to be used Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 38 / 382 2.

20. B: Data rate selection ATB Data Rate Selection Execute Command Syntax ATB<rate> Response OK Parameters <rate>: number from [0, 99], but meaningless. Reference V.25ter Notes · The responses of this command are compliant with the recommendation but this command has no effect. · It is recommended to use AT+CBST instead of this command Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 39 / 382 2.21. \N: Data transmission mode AT\N Data Transmission Mode Execute Command Syntax AT\N<x> Response OK Parameters <x>: 0: 4, 6: Reference V.25ter transparent mode RLP mode (non transparent) Notes · Not support. It is recommended to use AT+CBST instead of this command Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 40 / 382 2.22. &K Command: Flow control option AT&K Flow control command Execute command Syntax AT&K<mode> Response OK Parameters <mode>: 0: 3: 4: Reference V.25ter Disable all flow control Enable bi-directional hardware flow control. Enable XON/XOFF flow control.

Notes · Use AT&V0 to display the current flow control setting · SAGEMCOM recommends the use of the Flow control Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 41 / 382 2.23. L Command: Monitor speaker loudness ATL Monitor speaker loudness Write command Syntax ATL [<volume>] Response OK Parameter <volume> : 0..9 Reference ITU-T V.250 §6.3.13 Notes · The responses of this command are compliant with the recommendation but this command has no effect. Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 42 / 382 2.24. M Command: Monitor speaker mode ATM Monitor speaker loudness Write command Syntax ATM[<mode>] Response OK Parameter <mode> : 0..9 Reference ITU-T V.

250 §6.3.14 Notes · The responses of this command are compliant with the recommendation but this command has no effect. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 43 / 382 2.

25. S6 Command: Pause before blind dialing ATS6 Pause before blind dialing Write command Syntax ATS6=<time> Response OK Parameter <time> : 0..999 Reference ITU-T V.250 §6.3.9 Notes · The responses of this command are compliant with the recommendation but this command has no effect. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 44 / 382 2.26.

S8 Command: Comma dial modifier time ATS8 Comma dial modifier time Read command Syntax ATS8? Write command Syntax ATS8=<time> Response OK Parameter <time> : 0..255. See Data stored by &W for default value. Reference ITU-T V.250 §6.3.11 Notes · Since comma is ignored in D command, this command has no effect. Response <time> OK Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 45 / 382 2.

27. S10 Command: Automatic disconnect delay AT10 Automatic disconnect delay Read command Syntax ATS10? Write command Syntax ATS10=<time> Response OK Parameter <time> : 1.



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.254. See Data stored by &W for default value.

Reference ITU-T V.250 §6.3.12 Notes · The responses of this command are compliant with the recommendation but this command has no effect. Response <time> OK Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 46 / 382 2.28. N Command: Negotiate handshake option ATN Negotiate handshake option Write command Syntax ATN[<option>] Response OK Parameter <option> : 0..9 Reference Notes · The responses of this command are compliant with the recommendation but this command has no effect. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 47 / 382 2.29. S1 Command: Ring count ATSI Ring count Read command Syntax ATSI? Response <num> OK Parameter <num> : 0..

255. See Data stored by &W for default value. Reference Notes · Read command AT&S returns the number <num> of ring occurrences of last incoming data, fax or voice call. · Fax is for Hilo V1 only, not supported in Hilo V2 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 48 / 382 2.30. S11 Command: DTMF Dialing speed ATSI1 DTMF Dialing speed Write command Syntax ATSI1=<time> Response OK Parameter <time> : 0..999 Reference Notes · The responses of this command are compliant with the recommendation but this command has no effect. Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 49 / 382 2.31. W Command: Extended result code ATW Extended result code Write command Syntax ATW <mode> Response OK Parameter <mode> : 0 (only result code CONNECT supported) Reference Notes · Execution command determine which <mode> of result code is to be used as extended result code in addition to the CONNECT result code. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 50 / 382 2.

32. &S Command: DSR option AT&S DSR option Write command Syntax AT&S[<override>] Response OK Parameter <override> : 0 or omitted 1 : DSR signal always ON (0 is the default value) : DSR signal always OFF (See Data stored by &W for default value) Reference Notes Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 51 / 382 2.33. &R Command: RTS/CTS option AT&R RTS/CTS option Write command Syntax AT&R <option> Response OK Parameter <option> : 1=> In sync mode, CTS is always ON (RTS transitions are ignored).

In async mode, CTS will only drop if required by the flow control (See Data stored by &W for default value). Reference Notes · This selects how the modem control CTS. CTS operation is modified if hardware flow control is selected (see &K command). The parameter value, if valid, is written to S21 bit2 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 52 / 382 3. GENERAL AT COMMANDS 3.1. I Command: Request Identification Information ATI Request identification information Execute command Syntax ATI[<value>] Response <text> (depends on <value>) OK Parameter <value> : 0 or omitted: Model identifier 3: Software version Example: ATI HILO GPRS OK ATI3 Hi2C,A OK Reference V.25ter Notes · See also AT+GMR, AT+CGMR Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 53 / 382 3.

2. Z Command: Reset and restore user configuration ATZ Reset and restore user configuration Execute command Syntax ATZ[<value>] Response OK Parameter <value> : 0: Reset and restore user configuration with profile 0 1: Reset and restore user configuration with profile 1 Reference V.25ter Notes See also AT&V Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 54 / 382 3.3. +CGMI Command: Request manufacturer identification AT+CGMI Request manufacturer identification Test command Syntax AT+CGMI=? Execute command Syntax AT+CGMI Response (manufacturer identification text) OK Example: AT+CGMI SAGEM OK Response OK Reference [27.007] § 5.1 Notes Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 55 / 382 3.4.

+CGMM Command: Request model identification AT+CGMM Request model identification Test command Syntax AT+CGMM=? Execute command Syntax AT+CGMM Response (model identification text) OK Notes Response OK Reference [27.007] § 5.2 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 56 / 382 3.5.

+CGMR Command: Request revision identification AT+CGMR Request revision identification Test command Syntax AT+CGMR=? Execute command Syntax AT+CGMR Response (model revision identification text) OK Response OK Reference [27.007] § 5.3 Notes Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 57 / 382 3.6.

+CGSN Command: Request product serial number identification (IMEI) AT+CGSN Request product serial number identification (IMEI) Test command Syntax AT+CGSN=? Execute command Syntax AT+CGSN Response <sn> (identification text for determination of the individual ME) OK Notes Response OK Reference [27.007] § 5.4 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 58 / 382 3.7. +KGSN Command: Request product serial number identification and Software Version AT+KGSN Request product serial number identification (IMEI) Test command Syntax AT+KGSN=? Response +KGSN: (list of supported <imei type>s) OK Execute command Syntax Response AT+KGSN=<imei type> If <imei type> = 0: +KGSN: <IMEI> OK If <imei type> = 1: +KGSN: <IMEISV> OK If <imei type> = 2: +KGSN: <IMEISV_STR> OK Parameters <IMEI>: 15 digits IMEI (8 digits for TAC + 6 digits for SNR + 1 check digit) <IMEISV>: 16 digits IMEISV (8 digits for TAC + 6 digits for SNR + 2 SVN digits) <IMEISV_STR>: formatted string : <15 digits>-<Check digit> SV:<Software version> Reference SAGEMCOM proprietary Notes · This command has been developed to provide the IMEI SV through an AT Command +KGSN: 351578000023006 OK +KGSN: 3515780000230001 OK Example AT+KGSN=0 AT+KGSN=1 Note d'étude / Technical document : URD1 OTL 5635.



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1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 59 / 382 3.8. +CSCS Command: Set TE character set AT+CSCS Set TE character set Test command Syntax AT+CSCS=? Response +CSCS: (list of supported <chset>) OK Read command Syntax AT+CSCS? Response +CSCS: <chset> OK Write command Syntax AT+CSCS=<chset> Response OK Parameter <chset>: "GSM" "UCS2" "IRA" Reference [27.007] §5.

5 Notes GSM default alphabet (GSM 03.38 subclause 6.2.1) 16 bit universal multiple-octet coded character set (ISO/IEC 10646) default value · Select the character set used for all string types (Phonebook entries, SMS data, ...) Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 60 / 382 3.9. +CIMI Command: Request international subscriber identity AT+CIMI Request international subscriber identity Test command Syntax AT+CIMI=? Execute command Syntax AT+CIMI Response <IMSI>: (International Mobile Subscriber Identity) OK Notes Response OK Reference [27.

007] § 5.6 Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 61 / 382 3.10. +GCAP Command: Request complete TA capability list AT+GCAP Request complete TA capability list Execute command Syntax AT+GCAP Response +GCAP: list of <name>s OK Reference V.

25ter Notes Example: +GCAP:+FCLASS,+CGSM OK Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 62 / 382 3.11. +GMI Command: Request manufacturer identification AT+GMI Request manufacturer identification Test command Syntax AT+GMI=? Execute command Syntax AT+GMI Response (manufacturer identification text) OK Notes See also AT+CGMI Response OK Reference V.25ter Note d'étude / Technical document : URD1 OTL 5635.

1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 63 / 382 3.12. +GMM Command: Request model identification AT+GMM Request model identification Test command Syntax AT+GMM=? Execute command Syntax AT+GMM Response (model identification text) OK Notes See also AT+CGMM Response OK Reference V.25ter Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 64 / 382 3.13. +GMR Command: Request revision identification AT+GMR Request revision identification Test command Syntax AT+GMR=? Execute command Syntax AT+GMR Response (model identification text) OK Notes See also AT+CGMR Response OK Reference V.25ter Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 65 / 382 3.14.

+GSN Command: Request product serial number identification (IMEI) identical to GSN AT+GSN Request product serial number identification (IMEI) identical to GSN Test command Syntax AT+GSN=? Execute command Syntax AT+GSN Response <sn> (identification text for determination of the individual ME) OK Notes See also AT+KGSN, AT+CGSN Response OK Reference V.25ter Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition

10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 66 / 382 3.15. +CMUX Command: Multiplexing mode AT+CMUX Multiplexing Mode Test command Syntax AT+CMUX=? Response +CMUX: (list of supported <mode>s),(list of supported <subset>s),(list of supported <port_speed>s),(list of supported <N1>s),(list of supported <T1>s),(list of supported <N2>s),(list of supported <T2>s),(list of supported <T3>s),(list of supported <k>s) OK Read Command Syntax AT+CMUX? Response +CMUX: <mode>,<subset>,<port_speed>,<N1>,<T1>,<N2>,<T2>,<T3>,<k>] OK Write command Syntax AT+CMUX=<mode>[,<subset>[,<port_speed>[,<N1>[,<T1>[,<N2>[,<T2>[,<T3>[,<k>]]]]]] Response OK Parameters <mode>: multiplexer Transparency Mechanism 0: Basic option 1: Advanced option <subset>: 0 UIH frames used only 1 UI frames used only <port_speed>: transmission rate(1-8) 1 9 600 bit/s 2 19 200 bit/s 3 38 400 bit/s 4 57 600 bit/s 5 115 200 bit/s <N1>: maximum frame size (1- 1540) default Value : 31 (64 if Advanced option is used) <T1>: acknowledgement timer in units of ten milliseconds 1-255, where 10 is default (100 ms) <N2>: maximum number of re-transmissions 0-100, where 3 is default <T2>: response timer for the multiplexer control channel in units of ten milliseconds 2-255, where 30 is default (300 ms) <T3>: wake up response timer in seconds 1-255, where 10 is default <k>: window size, for Advanced operation with Error Recovery options 1-7, where 2 is default. Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 67 / 382 AT+CMUX Multiplexing Mode Reference [27.007] § 5.7 Notes · Multiplexing protocol is described in 3 GPP TS 27 010 · See Chapter Appendix 4 for a summary of SAGEMCOM support 3.16.

#CLS Command: Service Class AT#CLS Service Class Test command Syntax AT#CLS=? Response #CLS: (list of currently available <class> s) OK Read command Syntax AT#CLS? Write command Syntax AT#CLS=<class> Response OK Parameter <class> : 0, 1 Reference SAGEMCOM Proprietary Notes · Same behavior than +FCLASS command. Needed for Microsoft agreement. Response #CLS <class> OK Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 68 / 382 3.17.

*PSLOCUP Command: AT*PSLOCUP Write command Syntax AT*PSLOCUP Response OK Parameter Reference SAGEMCOM Proprietary Notes · This command generates a location update of MS Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 69 / 382 3.18. *PSCSCN Command: Call State Change Notification AT*PSCSCN Call State Change Notification Read command Syntax AT*PSCSCN? Response *PSCSCN: <mode> OK Note d'étude / Technical document : URD1 OTL 5635.1 008 / 70248 Edition 10 AT Command Set for SAGEMCOM HiLo/HiLoNC Modules 10-Jan-11 - Page 70 / 382 AT*PSCSCN Call State Change Notification Write command Syntax AT*PSCSCN=<mode> Response OK Parameter <Mode> : 0 Disable presentation of the notification 1 Enable presentation of the notification when the state of a call changes.



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