



CINTERION
WIRELESS MODULES

MC35i Terminal

Version: 02.00
DocID: MC35i Terminal_rn_v02.00n



Release Notes

Document Name: **MC35i Terminal Release Notes**

Version: **02.00**

Date: **November 17, 2008**

DocId: **MC35i Terminal_rn_v02.00n**

Status: **Confidential / Released**

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1 Preamble

This Release Note describes **MC35i Terminal Release 02.00**. The document summarizes all new features and major changes which have been added since Release 01.02.

To meet the legal demands according to the European Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE) the hardware platform of MC35i Terminal has been redesigned with this release. Along with this change, a new power amplifier was introduced. The benefit of the new power amplifier is a more stable current consumption versus antenna impedance. Furthermore, the SIM interface was optimized for electrical testing on the ORGA IT3 platform according to the "3GPP TS 51.010-1" specifications. The general performance regarding compliance with GSM Standards remains unchanged.

1.1 Related documents

- [1] MC35i Terminal Hardware Interface Description, Version 02.00
- [2] MC35i Terminal AT Commands Set, Version 02.00
- [3] GPRS Startup User's Guide
- [4] Remote-SAT User's Guide
- [5] Multiplexer User's Guide
- [6] Multiplex Driver Developer's Guide for Windows 2000 and Windows XP
- [7] Multiplex Driver Installation Guide for Windows 2000 and Windows XP
- [8] Application Note 16: Upgrading MC35i Firmware
- [9] Application Note 24: Application Developer's Guide

2 New Features

AT command / feature	Brief description
<p>AT^SCFG Extended Configuration Settings</p>	<p>AT^SCFG is a new command which serves to modify or query a number of different features of the MC35i Terminal:</p> <p>AT^SCFG "AutoExec":</p> <ul style="list-style-type: none"> • This feature allows you to configure MC35i Terminal to automatically execute an AT command or a sequence of AT commands. You can choose whether to launch the execution by toggling the DTR signal or using a timer (maximum 240 hours). The AT command(s) to be executed can be any command supported by MC35i Terminal. • A typical solution is to schedule a cyclic restart of the mobile, for example if the network usually deregisters a mobile after inactivity. For this purpose, use AT^SCFG to set the timer and specify an appropriate command sequence, such as AT+CFUN=1,1, followed by any further commands to initialize the module. • Another useful approach is sending a short message once the DTR signal is activated. <p>AT^SCFG "Call/SpeechVersion1":</p> <ul style="list-style-type: none"> • This parameter specifies or queries the indication of Half Rate and Full rate support within the bearer capability information transmitted from the module to the network. On power-up, priority is given to Full Rate. Alternatively, the Half Rate codec can be preferred or disabled. <p>AT^SCFG "Radio/Band":</p> <ul style="list-style-type: none"> • This parameter specifies or queries the frequency band(s) the MC35i Terminal is allowed to use.
<p>AT^SNFG Generate Tone</p>	<p>The AT^SNFG command generates local sine tones on the audio interface currently selected with AT^SAIC and AT^SNFS. Up to three different tones can be composed by changing the duration, frequency and amplitude.</p>
<p>AT+CSSN</p>	<p>To meet the demands of 3GPP TS 51.010 test cases the "+CSSI" URC now covers a greater range of notifications for call forwarding.</p>
<p>AT^SHUP</p>	<p>AT^SHUP is a proprietary AT command to disconnect a call and, in addition, to send a specific release cause message to the network for being forwarded to the remote party.</p> <p>The feature can be used to reject an incoming call, terminate an active or held call, end all calls at a time, or disconnect a party from a telephone conference.</p> <p>The call release cause can be freely chosen from a list of 6 response types. It depends on the network whether or not a delivered release cause is forwarded to the remote subscriber.</p>

3 Important Notes

AT command / feature	Brief description
Remote SAT	As stated in [4] the related URC and AT command sequence is applicable for those command types only which are related to (and handled by) an external user interface (UI) running on a TA. The range of the SAT implementation is determined by SAT class 3, letter class c and by the terminal specification given in [4]. These additional SAT proactive commands are handled in the background. However, arbitrary “^SSTN:254” URCs may be issued if a proactive command was finished in the background.
Terminating CSD call while GPRS connection is suspended	If a GPRS connection is suspended because a CSD call is active on the same interface the ATH command does not work and returns only “CME ERROR unknown” after 1 minute without terminating the connections. Workaround: To end both the CSD call and the GPRS connection at a time send the AT+CHUP command. To end only the CSD call enter AT+CHLD=1, then you can resume the GPRS connection by entering the ATO command.