



CINTERION
WIRELESS MODULES

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Release Notes

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1 Preamble

This Release Note refers to
MC55i Terminal 01.201 (A-Revision 01)

MC55i Terminal is the successor of the MC35i Terminal.

Important Note:

The maximum bit rate allowed for MC55i Terminal is AT+IPR=115200 bps (factory default). Trying to set a higher bit rate will disable access to the AT command interface.

1.1 Related Documents

- [1] MC55i AT Command Set, v01.201a
- [2] MC55i Terminal Hardware Interface Description, 01.201a
- [3] Product Comparison: Differences between TC35iT, MC35iT and MC55iT/MC52iT, v02
- [4] Multiplexer User's Guide, v08
- [5] Multiplex Driver Developer's Guide, v14
- [6] Multiplex Driver Installation Guide, v13
- [7] Application Note 16: Upgrading MC55i Firmware, v01
- [8] Application Note 24: Application Developer's Guide, v07

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2 Known Issues

AT command / feature	Brief description
AT^SALS, AT+CCWA	If the presentation of “^SALS” URCs for dual line SIM cards and Call Waiting are activated, the “^SALS” URC does not show up for a waiting call and the “+CCWA” URC will be displayed without <class> parameter.
“+CREG” URCs	The URCs “+CREG: <stat>” or “+CREG: <stat>[, <lac>, <ci>]” are not buffered. If the serial interface is not available to report these URCs, they are discarded. Reporting of the +CREG URCs is continued as soon as the interface becomes available again.
AT+CRING	The extended format of “+CRING: <type>” URCs is not supported on multiplexer channels 2 and 3.
AT+CGEREP	If GPRS event reporting is enabled by AT+CGEREP and the network initiates a context deactivation, then the "+CGEV: NW DEACT" URC currently never contains <PDP_addr> and <cid>. If an application needs this information to maintain its GPRS context states, it should update its state information as soon as the "+CGEV: NW DEACT" URC is received by using the read commands AT+CGACT? or AT^SGACT?
AT^SCFG, “TCP/IRT” parameter <tcplrt>	Initial Retransmission Timeout <tcplrt> After changing the <tcplrt> parameter the new value shall take effect the next time you start an Internet Service with AT^SISO. With MC55i 01.201, however, the new setting applies only to service profiles afterwards created with AT^SISS, existing service profiles continue to use the previous setting even after opening a new session with AT^SISO.
Indication of “NO CARRIER” result code after releasing CSD bearer for Internet service	<p>When a CSD call, associated to the Internet Services, is released, either by the local peer with AT^SISC or from the network side (in particular after loss of net coverage), a running write or read operation (AT^SISW or AT^SISR) will be properly completed on AT command level. However, the AT command line becomes idle and the “NO CARRIER” string will be printed out, causing any other running AT command to be aborted without prior warning and without any further response related to this AT command. The problem occurs in particular, when the inactivity timeout <inactTO> of the CSD bearer expires and, at the same time, another AT command is executed (e.g. reading the phonebook).</p> <p>Workaround: As the user may not be aware that the CSD connection was released the host application should be designed to parse for the “NO CARRIER” result code and react accordingly, for example by repeating the aborted AT command.</p>

AT command / feature	Brief description
URC for AT^SISR, URC for AT^SISW	<p>During repeated calls of AT^SISR or AT^SISW it is possible that the corresponding URC for the last read or write request is received before the AT command response. This could lead to misinterpretation.</p> <p>To avoid the problem an application should always wait for the appropriate “^SISR:x,1” URC or “^SISW:x,1” URC indicating that data can be written. Alternatively it is possible to switch to polling mode, thereby deactivating URCs for all TCP/IP AT commands (AT^SCFG; parameter "Tcp/WithURCs").</p>
Read URC for AT^SISR	<p>As a rule the read “^SISR: x,1” URC is issued, if less data was confirmed than requested during the last "Read Data" operation with AT^SISR and new data is available. However, after requesting and receiving data over an HTTP connection the read “^SISR: x,1” URC is always issued, regardless of the amount of data confirmed.</p>
PIN2 / PUK2	<p>If the module is waiting for SIM PUK2 the AT+CLCK="FD",x command returns OK instead of “CME ERROR: SIM PUK2 required”.</p>