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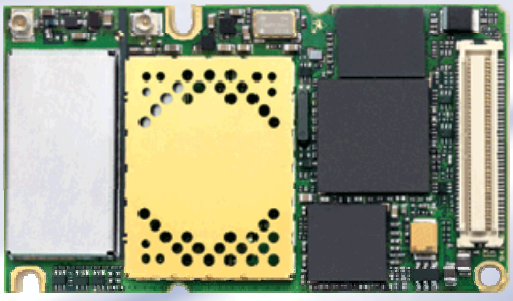

XT65/XT75
Siemens Cellular Engine

Version: 01.001
DocID: XT65_XT75_rn_v01.001

Release Notes

Document Name:	**XT65/XT75 Release Notes**
Version:	**01.001**
Date:	**January 18, 2007**
DocId:	**XT65_XT75_rn_v01.001**
Status:	**Confidential / Released**

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1 Preamble

This Release Note introduces the two Siemens products
XT65 01.001
XT75 01.001.

The difference between both modules is that the XT75 additionally features EGPRS.

The document briefly summarizes all new features and major changes which have been added since Release 00.130.

1.1 Related Documents

Documents supplied with XT65/XT75:
[1] XT65 AT Command Set 01.001
XT75 AT Command Set 01.001
[2] XT65/XT75 Hardware Interface Description 01.001
[3] Application Note 02: Audio Interface Design for GSM Applications
[4] Application Note 07: Rechargeable Lithium Batteries in GSM Applications
[5] Application Note 16: Updating Firmware
[6] Application Note 17: Over-The-Air Firmware Update
[7] Application Note 22: Using TTY / CTM Equipment
[8] Application Note 26: Power Supply Design for GSM Applications
[9] Application Note 24: Application Developer's Guide
[10] Application Note 32: Integrating USB into GSM Applications
[11] Application Note 36: GSM Applications with Integrated GPS Receiver
[12] Multiplexer User's Guide
[13] Multiplex Driver Developer's Guide for Windows 2000 and Windows XP
[14] Multiplex Driver Installation Guide for Windows 2000 and Windows XP
[15] Remote SAT User's Guide
[16] Java User's Guide
[17] Java doc \wtk\doc\html\index.html
[18] ANTARIS Positioning Engine Protocol Specification, Version 5.00

Other related documents:
[19] ANTARIS® 4 GPS Modules System Integration Manual (SIM)

Related websites:
The latest product information and technical documents are ready for download on the Siemens Website or may be obtained from your local dealer or the Siemens Sales department. To visit the Siemens Website you can use the following link:
http://www.siemens.com/wm

An extensive collection of documents on GPS receivers and GPS related topics is available for download from u-blox AG, Switzerland:
http://www.u-blox.com

Information on non-proprietary protocols supported by the on-board GPS receiver can be found on the following websites:
RTCM protocol: http://www.rtcm.org
NMEA protocol: http://www.nmea.org

2 New and Improved Features

AT command / feature	Brief description
AT^SGPSS	This release introduces the response CONNECT sent by the module each time when the Transparent mode is started with AT^SGPSS=1,1 or restored with AT^GPSS=4. The CONNECT response indicates that the module is in a special mode and no longer usable to send AT commands or to signal URCs.
GPS functionality under Java	You can now easily switch back and forth between the GPS Transparent mode run from the CommConnection class and the Location API JSR179. To do so, shut down the CommConnection and, afterwards, open the Location API. Vice versa, the CommConnection can be opened after closing the Location API.
Java IDE Debugging	For Java debugging you can now use the USB interface as specified in [16]. This eliminates the need to run Java debugging only on the ASC0 interface.
ATDI	The ATDI command is now SIM PIN protected.

3 Known Issues

AT command / feature	Brief description
GPIO performance	The maximum number of pulses that can be measured at all GPIO input pins depends on the total performance of the Java application. The theoretical limit is up to 20 pulses per second at all GPIO input pins in total, but not more than 10 pulses per second for one GPIO input. This performance can be achieved by a Java application which uses a separate ATCommand Class instance for GPIO handling. Other activities running in parallel will decrease the limit. Keep in mind that this also implies unsolicited network initiated activities, such as a location update. Also, take into account that state transitions can be properly detected only if the signal remains stable for 8 TDMA frames (= 36.93 ms) in Normal mode, or accordingly, 0.9 s to 2.7 s in SLEEP mode. For further detail please refer to the specification of the AT^SCPOL command provided in [1]. If the limit is exceeded the ATCommandListener Class calls the Callback method ATEvent() with a NULL string, and the System.out will print a string which reads "com.siemens.icm.io.ATCommandFailedException: Error getting URC HW, URC has been lost, too many URCs waiting". For further detail please refer to [17]. To avoid too many state transitions on the ATCommandListener instance we recommend that you configure several GPIOs as one single port and enable polling on that port only.
OTAP over CS bearer during running CS call (voice or data)	In some networking infrastructures there may be an interference between OTAP started on a circuit-switched bearer (CS) and an existing CS call. As a result, an OTAP failure may occur. If such a scenario is likely to happen in your application environment we recommend that a delay of around 15s be set between hanging up the CS call and starting OTAP over CSD. This means that you cannot use the standard SM trigger for OTAP because there are no 15s time when shutting down the running Java application. Instead, trigger OTAP from your application (e.g. receive trigger SM from application, hang up CS call, wait 15s, start OTAP by AT command). In emergency cases (when your Java application is malfunctioning) you can still use the SM trigger for OTAP but you probably need to try several times to make sure that there is no CS call at the time OTAP starts over CSD.

AT command / feature	Brief description
AT^SJSEC under JVM	When writing data or certificates with AT^SJSEC by means of the Java ATCommand class take care that you send the content in at least two packets. The size of each packet shall not exceed 1023 bytes.
Unsolicited result codes "^SISR: x,2", "^SISW: x,2"	At the end of an Internet session, a download job may sometimes return the "SISW: x,2" URC instead of the expected "^SISR: x,2" URC, or vice versa, an upload job may return "^SISR: x,2" instead of "^SISW: x,2". Both URCs are correct in either case – they notify that data transfer has completed and that the service can be closed with AT^SISC. Example: The FTP put service ("ftpput://…") returns the URC "^SISR: x,2" instead of "^SISW: x,2" if used with mode="d" to delete a given element name on the FTP server. For greater flexibility, to cover all cases, we recommend that the host application shall be parsing for the URC "^SIS*: x,2" rather than for the full URC text. (x = <srvProfileId>, i.e. ID of the Internet service profile).
AT^SISI, AT^SISE	If a service or network error occurs during an IP session and the "^SIS" URC or the AT^SISE command display an error message, the service normally enters state 5 (Closing) and then 6 (Down). Yet, in some error conditions the service cannot close the session, but remains in state 4 (Up) after sending the error message(s). In this case, use the AT^SISC command to close the service.
SIM PIN2 SIM PUK2	If a wrong SIM PIN2 is entered the module properly returns "+CME ERROR: incorrect password" during the first three attempts. However, all subsequent attempts will result in "+CME ERROR: invalid index" instead of "SIM PUK2 required". To unlock the SIM PIN2 use the command AT+CPIN2=<pin>, <new pin>, where <pin> is the SIM PUK2 and <new pin> the new SIM PIN2.
Fax	Proper functioning of fax transmission cannot be guaranteed under all circumstances.

AT command / feature	Brief description
SMS	The reference number to identify segments of a concatenated SMS may not be correctly transmitted when sending the concatenated SMS from memory using AT+CMSS. It is therefore recommended to use AT^SCMS in order to send out the concatenated SMS.
AT^SCFG=radio/band	Applies to customer IMEI modules only! Please enter the customer IMEI before configuring the radio bands to be employed by the module. Radio bands are set by means of the AT command AT^SCFG=radio/band.