



# AT-Commands

## for the GSM-Modem

Version 1.0

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Copy deadline: March 1, 2003

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4-1528-2734-0

## AT Commandset For The GSM Modem

This document provides a reference of AT commands suitable for the GSM Modem incorporated in certain Tixi devices. Please note that you must send these commands to the GSM modem directly, rather than to the Tixi device. Therefore, you need to enable the TransMode by means of this command:

```
[<TransMode com="C0" handshake="RTSCTS">]
```

Use a terminal software to send this command to the Tixi device. It will then answer with CONNECT. All commands entered thereafter will be sent to the GSM modem directly now. You may end this mode by switching the device off and on again.

<b>+CGMI</b>	Manufacturer Identification	<b>+VGR, +VGT</b>	Gain Control
<b>+CGMM</b>	Request Model Identification	<b>+CMUT</b>	Microphone Mute Control
<b>+CGMR</b>	Request Revision Identification	<b>+SPEAKER</b>	Speaker + Microphone Selection
<b>+CGSN</b>	Product Serial Number	<b>+ECHO</b>	Echo Cancellation
<b>+CSCS</b>	Select TE Character Set	<b>+SIDET</b>	Side Tone Modification
<b>+CIMI</b>	Request IMSI	<b>+VIP</b>	Initialize Voice Parameters
<b>+CCID</b>	Card Identification	<b>+CSNS</b>	Single Numbering Scheme
<b>+GCAP</b>	Capabilities List	<b>Network</b>	Service Commands
<b>A/</b>	Repeat Last Command	<b>+CSQ</b>	Signal Quality
<b>+CPOF</b>	Power Off	<b>+COPS</b>	Operator Selection
<b>+CFUN</b>	Set Phone Functionality	<b>+CREG</b>	Network Registration
<b>+CPAS</b>	Phone Activity Status	<b>+WOPN</b>	Read Operator Name
<b>+CMEE</b>	Report Mobile Equipment Errors	<b>+CPOL</b>	Preferred Operator List
<b>+CKPD</b>	Keypad Control	<b>+CSQ</b>	Signal Quality
<b>+CCLK</b>	Clock management	<b>+COPS</b>	Operator Selection
<b>+CALA</b>	Alarm management	<b>+CREG</b>	Network Registration
<b>D</b>	Dial command	<b>+WOPN</b>	Read Operator Name
<b>H</b>	Hang-up Command	<b>+CPOL</b>	Preferred Operator List
<b>A</b>	Answer a Call	<b>+CPIN</b>	Enter PIN
<b>+CEER</b>	Extended Error Report	<b>+CPIN2</b>	Enter PIN2
<b>+VTD, +VTS</b>	DTMF Signals	<b>+CPINC</b>	PIN Remaining Attempt Number
<b>ATDL</b>	Redial Last Telephone Number	<b>+CLCK</b>	Facility Lock
<b>AT%Dn</b>	Automatic Dialing with DTR	<b>+CPWD</b>	Change Password
<b>ATSO</b>	Automatic Answer	<b>+CPBS</b>	Select Phone Book Memory
<b>+CICB</b>	Incoming Call Bearer	<b>+CPBR</b>	Read Phone Book Entries

<b>+CPBF</b>	Find Phone Book Entries	<b>+CLIP</b>	Calling Line Identification
<b>+CPBW</b>	White Phone Book Entry	<b>+COLP</b>	Connected Line Identification
<b>+CPBP</b>	Phone Book Phone Search	<b>+CAOC</b>	Advice Of Charge
<b>+CPBN</b>	Move Action in Phone Book	<b>+CACM</b>	Accumulated Call Meter
<b>+CNUM</b>	Subscriber Number	<b>+CAMM</b>	Accumulated Call Meter Maximum
<b>+WAIP</b>	Avoid Phone Book Init	<b>+CPUC</b>	Price Per Unit and Currency Table
<b>+CSMS</b>	Select Message Service	<b>+CHLD</b>	Supplementary Services
<b>+CNMA</b>	New Message Acknowledgement	<b>+CLCC</b>	List Current Calls
<b>+CPMS</b>	Preferred Message Storage	<b>+CSSN</b>	Service Notifications
<b>+CMGF</b>	Preferred Message Format	<b>+CUSD</b>	Supplementary Service Data
<b>+CSAS</b>	Save Settings	<b>+CCUG</b>	Closed User Group
<b>+CRES</b>	Restore Settings	<b>+CBST</b>	Bearer Type Selection
<b>+CSDH</b>	Show Text Mode parameters	<b>+FCLASS</b>	Select Mode
<b>+CNMI</b>	New Message Indication	<b>+CR</b>	Service Reporting Control
<b>+CMGR</b>	Read Message	<b>+CRC</b>	Cellular Result Codes
<b>+CMGL</b>	List Message	<b>+ILRR</b>	DTE-DCE Local Rate Reporting
<b>+CMGS</b>	Send Message	<b>+CRLP</b>	Radio Link Protocol Parameters
<b>+CMGW</b>	Write Message to Memory	<b>+DOPT</b>	Others Radio Link Parameters
<b>+CMSS</b>	Send Message from Storage	<b>%C</b>	Select Data Compression
<b>+CSMP</b>	Set Text Mode Parameters	<b>+DS</b>	V42 bis Data Compression
<b>+CMGD</b>	Delete Message	<b>+DR</b>	V42 bis Data Compression Report
<b>+CSCA</b>	Service Center Address	<b>IN</b>	Select Data Error Correcting Mode
<b>+CSCB</b>	Select Cell Broadcast Message	<b>+FTM</b>	Transmit Speed
<b>+WCBM</b>	Cell Broadcast Message IDs	<b>+FRM</b>	Receive Speed
<b>+WMSC</b>	Message Status Modification	<b>+FTH</b>	HDLC Transmit Speed
<b>+WMGO</b>	Message Overwriting	<b>+FRH</b>	HDLC Receive Speed
<b>+CCFC</b>	Call Forwarding	<b>+FTS</b>	Stop Transmission and Wait
<b>+CLCK</b>	Call Barring	<b>+FRS</b>	Receive Silence
<b>+CPWD</b>	Modify SS Password	<b>+FDT</b>	Transmit Data
<b>+CCWA</b>	Call Waiting	<b>+FDR</b>	Receice Data
<b>+CLIR</b>	Calling Line Identification	<b>+FET</b>	Transmit Page Punctuation

<b>+FPTS</b>	Page Transfer Status Parameters	<b>&amp;V</b>	Display Configuration
<b>+FK</b>	Terminate Session	<b>I</b>	Request Identification Information
<b>+FBOR</b>	Page Transfer Bit Order	<b>+CCED</b>	Cell Environment Description
<b>+FBUF</b>	Buffer Size Report	<b>+CCED</b>	Automatic RxLev Indication
<b>+FCQ</b>	Copy Quality Checking	<b>+WIND</b>	General Indications
<b>+FCR</b>	Capability to Receive	<b>+ADC</b>	Analog Digital Converter
<b>+FDIS</b>	Current Sessions Parameters	<b>+CMER</b>	Mobile Equipment Event Reporting
<b>+FDCC</b>	DCE Capabilities Parameters	<b>+WLPR</b>	Read Language Preference
<b>+FLID</b>	Local ID String	<b>+WLPW</b>	Write Language Preference
<b>+FPHCTO</b>	Page Transfer Timeout Parameter	<b>+WIOR</b>	Read GPIO Value
<b>+IPR</b>	Fixed DTE Rate	<b>+WIOW</b>	Write GPIO Value
<b>+ICF</b>	DTE-DCE Character Framing	<b>+WAC</b>	Abort Command
<b>+IFC</b>	DTE-DCE Local Flow Control	<b>+WTONE</b>	Play Tone
<b>&amp;C</b>	Set DCD Signal	<b>+WDTMF</b>	Play DTMF Tone
<b>&amp;D</b>	Set DTR Signal	<b>+WDWL</b>	Wavecom Downloading
<b>&amp;S</b>	Set DSR Signal	<b>+WVR</b>	Wavecom Voice Rate
<b>O</b>	Back to Online Mode	<b>+WDR</b>	Data Rate
<b>Q</b>	Result Code Suppression	<b>+WHWV</b>	Hardware Version
<b>V</b>	DCE Response Format	<b>+WDOP</b>	Date Of Production
<b>Z</b>	Default Configuration	<b>+WSVG</b>	Wavecom Select Voice Gain
<b>&amp;W</b>	Save Configuration	<b>+WSTR</b>	Wavecom Status Request
<b>&amp;T</b>	Auto-Tests	<b>+WSCAN</b>	Wavecom Scan
<b>E</b>	Echo	<b>+WRIM</b>	Ring Indicator Mode
<b>&amp;F</b>	Restore Factory Settings	<b>+W32K</b>	Power saving mode