

# Wavecom Design document

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This document describes the embedded software design of Wavecom Fastrack M1306B module. This module is GSM/GPRS Module.

Version 1.0

### *Revision History*

Date	Version	Description	Author	Role
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## 1 Introduction

### 1.1 Purpose

The purpose of this document is to describe the detailed design of the Wavecom module and how it works.

### 1.2 Definitions, Acronyms, and Abbreviations

GSM	<i>Global System for Mobile communications</i>
PIN	Personal Identity Number
SIM	Subscriber Identification Module
SMS	Short Message Service

### 1.3 References

Item	Name	link
[1]	fastrack_m1306b	
[2]	gsm822w	
[3]	SIM900_AT Command Manual_V1.03	

### 1.4 Overview

The Wavecom Fastrack M1306B is a discrete, rugged cellular Plug & Play Wireless CPU offering state-of-the-art GSM/GPRS connectivity for machine to machine application.

The Dual Band 900/1800 MHz Fastrack M1306B offers GPRS class 10 capability. Fastrack M1306 is controlled by firmware through a set of AT commands.

### 1.5 Folders and files structure

Wavecom Fastrack module was implemented by two files: Wavecom.c and Wavecom.h .

## 1.6 Features

Features	GSM	DCS
<b>Open AT®</b>	Open AT® programmable: Native execution of embedded standard ANSI C applications, Custom AT command creation, Custom application library creation, Standalone operation.	
<b>Standard</b>	900 MHz. E-GSM compliant. Output power: class 4 (2W). Fully compliant with ETSI GSM phase 2 + small MS.	1800 MHz Output power: class 1 (1W). Fully compliant with ETSI GSM phase 2 + small MS.
<b>GPRS</b>	Class 10. PBCCH support. Coding schemes: CS1 to CS4. Compliant with SMG31bis. Embedded TCP/IP stack (optional).	
<b>Interfaces</b>	RS232 (V.24/V.28) Serial interface supporting: <ul style="list-style-type: none"> <li>Baud rate (bits/s): 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.</li> <li>Autobauding (bits/s): 2400, 4800, 9600, 19200, 38400, 57600.</li> </ul> 2 General Purpose Input/Output gates (GPIOs) available. 3 V SIM interface. AT command set based on V.25ter and GSM 07.05 & 07.07. Open AT® interface for embedded application.	
<b>SMS</b>	Text & PDU. Point to point (MT/MO). Cell broadcast.	

Features	GSM	DCS
<b>Data</b>	Data circuit asynchronous. Transparent and Non Transparent modes. Up to 14.400 bits/s. MNP Class 2 error correction. V42.bis data compression.	
<b>Fax</b>	Automatic fax group 3 (class 1 and Class 2).	
<b>Audio</b>	Echo cancellation Noise reduction Telephony. Emergency calls. Full Rate, Enhanced Full Rate and Half Rate operation (FR/EFR/HR). Dual Tone Multi Frequency function (DTMF).	
<b>GSM supplement services</b>	Call forwarding. Call barring. Multiparty. Call waiting and call hold. Calling line identity. Advice of charge. USSD	
<b>Other</b>	DC power supply Real Time Clock with calendar Complete shielding	

## 1.7 Connection:

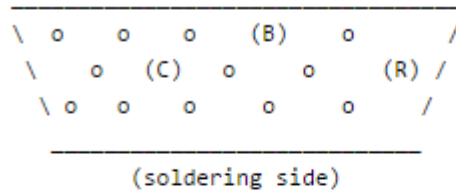
The Complete package contents of the Wavecom Fastrack M 1306B consists of:

1. M 1306B Modem.
2. One power supply cable with fuse integrated.
3. Antenna with its cable.
4. Sub D High HD 15-pin to serial 9 pin cable.

Enter your SIM card and if Modem led indication toggles, it will work correctly.

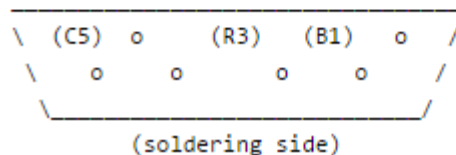
You can connect 3 cables only to your Kit and work. RX, TX and Ground cable and connect as this Figure.

canon 15pin to WaveCOM modem



B Blue cable <----> B1  
 C Black cable <----> C5  
 R Red cable <----> R3

Canon 9pin DB9 connector to MAX232/MCU



## 2 Detailed Design

### 2.1 AT Commands Overview

Any Command must started by AT then another things depends on every command such as "AT<x>" or "AT+<x><n>" as <x>: command and <n>: arguments.

And to read command "AT+<x>?", to test "AT+<x>=?", to write "AT+<x>=<parameters>" and to execute "AT+<x>".

Any Command must be ended by <CR>, where <CR>: '\r' or 0x0D.



You should disable Echo in starting as the default is enabling the Echo so if you send "AT" at the start you will receive "AT<CR><LF><CR><LF>OK<CR><LF>" and if disabled it you will receive "<CR><LF>OK<CR><LF>", where <LF>: '\n' or 0x0A.

**Response:**

- If command syntax is incorrect, an **ERROR** string is returned.
- If command syntax is correct but with some incorrect parameters, the **+CME ERROR: <Err>** or **+CMS ERROR: <SmsErr>** strings are returned with different error codes and <Err> or <SmsErr> is a number define the Error Type.
- If the command line has been performed successfully, an **OK** string is returned. In some cases, such as "AT+CPIN?" or (unsolicited) incoming events, the product does not return the **OK** string as a response.

**IMPORTANT NOTE:**

1. The Default Baud Rate is "115200" and at AVR-ATMEGA 115200 doesn't work correctly because of the difficult for baud rate divider register to get its value so there is 8.5% error, so change this Baud by PC terminal to be (as ex.) 9600 then change it in the Code at UART configuration then Connect to ATMEGA KIT.
2. Flow control should be disabled by Pc terminal also as the default is enabling flow control.

## 2.2 Initializing module

### 2.2.1 Disable Echo:

This happened by sending "ATE0" command.

**14.13.2 Syntax:**

Command Syntax: **ATE**

COMMAND	POSSIBLE RESPONSES
<b>ATE0</b> <i>Note: Characters are not echoed</i>	<b>OK</b> <i>Note: Done</i>
<b>ATE1</b> <i>Note: Characters are echoed</i>	<b>OK</b> <i>Note: Done</i>

### 2.2.2 Enable General Indication:

By "AT+WIND=63" command

Wavecom has introduced a general mechanism to send unsolicited non-standardized indications to the application. The identified unsolicited non-standardized indications are:

- Indication of a physical change on the SIM detect pin from the connector (meaning SIM inserted, SIM removed).
- Indication during mobile originated call setup that the calling party is ringing.

- Indication of the availability of the product to receive AT commands after boot.  
For each of these indications, a "bit flow" has to be indicated.

### 2.2.3 Enable General Error Indication

This command disables or enables the use of the "+CME ERROR : <xxx>" or "+CMS ERROR : <xxx>" result code instead of simply "ERROR".

#### 4.14.2 Syntax:

Command Syntax: `AT+CMEE=<error reporting flag>`

COMMAND	POSSIBLE RESPONSES
<code>AT+CMEE=0</code> <i>Note: Disable ME error reports, use only « ERROR »</i>	OK
<code>AT+CMEE=1</code> <i>Note: Enable «+CME ERROR: &lt;xxx&gt;» or «+CMS ERROR: &lt;xxx&gt;»</i>	OK

### 2.2.4 No flow Control

#### 14.3.2 Syntax:

Command Syntax: `AT+IFC=<DCE_by_DTE>,<DTE_by_DCE>`

COMMAND	POSSIBLE RESPONSES
<code>AT+IFC?</code> <i>Note:</i>	+IFC: 2,2 OK <i>Note: Current values</i>
<code>AT+IFC=?</code> <i>Note:</i>	+IFC: (0,2),(0,2) OK <i>Note: Possible values</i>
<code>AT+IFC=0,0</code> <i>Note:</i>	OK <i>Note: New values</i>

### 2.2.5 Check for PIN

Normally "AT+CPIN" command should return READY "the first response" if there is no PIN required.

AT+CPIN?

The possible responses are:

+CPIN: READY	ME is not pending for any password
+CPIN: SIM PIN	CHV1 is required
+CPIN: SIM PUK	PUK1 is required
+CPIN: SIM PIN2	CHV2 is required
+CPIN: SIM PUK2	PUK2 is required
+CPIN: PH-SIM PIN	SIM lock (phone-to-SIM) is required
+CPIN: PH-NET PIN	Network personalisation is required
+CME ERROR: <err>	SIM failure (13) absent (10) etc...

### 2.2.6 Check the Activity Status

Check if Module is ready to receive commands or not.

Command Syntax: **AT+CPAS**

COMMAND	POSSIBLE RESPONSES
AT+CPAS	+CPAS: <pas>
<i>Note: Current activity status</i>	OK

#### 4.13.3 Defined values:

<pas>

- 0: ready (allow commands from TA/TE)
- 1: unavailable (does not allow commands)
- 2: unknown
- 3: ringing (ringer is active)
- 4: call in progress
- 5: asleep (low functionality)

### 2.2.7 Check Network Registration

Should give this command 1 in argument, and if OK, you will receive "CREG: 1".

Command Syntax: **AT+CREG=<mode>**

Response Syntax: **+CREG : <mode>, <stat> [ , <lac>, <ci> ]** for AT+CREG? Command only

COMMAND	POSSIBLE RESPONSES
AT+CREG?	+CREG: <mode>,<stat> OK <i>Note: As defined here-above</i>
AT+CREG=0	OK <i>Note: Disable network registration unsolicited result code</i> <i>Note: Command valid</i>
AT+CREG=1	OK <i>Note: Enable network registration unsolicited result code</i> <i>Note: Command valid</i>
AT+CREG=2	OK <i>Note: Enable network registration and location information unsolicited result code</i> <i>Note: Command valid</i>
AT+CREG=?	+CREG: (0-2) <i>Note: 0,1,2 &lt;mode&gt; values are supported</i>

#### 6.3.3 Defined values:

<mode>

- 0: Disable network registration unsolicited result code (default)
- 1: Enable network registration code result code +CREG : <stat>
- 2: Enable network registration and location information unsolicited result code +CREG: <stat>,<lac>,<ci> if there is a change of network cell.

<stat>

- 0: not registered, ME is not currently searching for a new operator.
- 1: registered, home network.
- 2: not registered, ME currently searching for a new operator to register to.
- 3: registration denied.
- 4: unknown.
- 5: registered, roaming.

<lac>

string type; two byte location area code in hexadecimal format (e.g. "00C3" equals 195 in decimal).

<ci>

string type; two byte cell ID in hexadecimal format.

## 2.3 Call

### 2.3.1 Initialize Call

#### 2.3.1.1 Enable Incoming Call Number Presentation

This command allows control of the calling line identification presentation supplementary service. When presentation of the CLI (Calling Line Identification) is enabled (and calling subscriber allows), +CLIP response is returned after every RING (or +CRING) result code.

Command Syntax: `AT+CLIP=<n>`

Response Syntax: `+CLIP: <n>,<m>` for `AT+CLIP?`

`+CLIP: <number>, <type>[,<subaddr>, <satype>, <alpha>]` for an incoming call, after each RING or +CRING indication

COMMAND	POSSIBLE RESPONSES
<code>AT+CLIP=1</code>	OK
<i>Note: Enable CLIP</i>	<i>Note: CLIP is enabled</i>
<code>AT+CLIP?</code>	<code>+CLIP: &lt;n&gt;,&lt;m&gt;</code>
	OK
<i>Note: Ask for current functionality</i>	<i>Note: &lt;n&gt; and &lt;m&gt; defined as below</i>
	RING
	<i>Note: Incoming call</i>
	<code>+CLIP: "0146290800",129,1,,,"FRED"</code>
	or
	<code>+CLIP: "0146290800",129,1,,,"8000204212FFFF"</code>
	(UCS2 format)
	<i>Note: Incoming call with number and name presentation</i>
<code>AT+CLIP=0</code>	OK
<i>Note: Disable CLIP presentation</i>	<i>Note: Command valid</i>

#### 10.6.3 Defined values:

**<n>**

parameter sets/shows the result code presentation in the TA

**<n>**

- 0: Disable
- 1: Enable

**<m>**

parameter shows the subscriber CLIP service status in the network

**<m>**

- 0: CLIP not provisioned
- 1: CLIP provisioned
- 2: Unknown (no network...)

#### 2.3.1.2 Extended Incoming Call Indication

This command gives more detailed ring information for an incoming call (voice or data). Instead of the string "RING", an extended string is used to indicate which type of call is ringing (e.g. +CRING: VOICE).

These extended indications are:

+CRING: ASYNC	for asynchronous transparent
+CRING: REL ASYNC	for asynchronous non-transparent
+CRING: VOICE	for normal speech.
+CRING : FAX	for fax calls

**11.5.2 Syntax:**Command Syntax: **AT+CRC**

COMMAND	POSSIBLE RESPONSES
<b>AT+CRC=0</b>	OK
<i>Note: Extended reports disabled</i>	<i>Note: Command valid</i>
<b>AT+CRC=1</b>	OK
<i>Note: Extended reports enabled</i>	<i>Note: Command valid</i>

**2.3.2 Call Number**

The ATD command is used to set a voice, data or fax call. As per GSM 02.30, the dial command also controls supplementary services. For a voice call, the application sends the following ASCII string to the product: (the bearer may be selected previously, if not a default bearer is used). ATD<nb>; where <nb> is the destination phone number.

The response to the ATD command is one of the following:

Verbose result code	Numeric code with ATV0 set	Description
OK	0	if the call succeeds, for voice call only
CONNECT <speed>	1,11,12,13,14,15	if the call succeeds, for data calls only, <speed> takes the value negotiated by the product.
BUSY	7	If the called party is already in communication
NO ANSWER	8	If no hang up is detected after a fixed network time-out
NO CARRIER	3	Call setup failed or remote user release. Use the AT+CEER command to know the failure cause

**2.3.3 Answer and Release Call**Command Syntax: **ATA**

COMMAND	POSSIBLE RESPONSES
<b>ATA</b>	RING
<i>Note: Answer to this incoming call</i>	<i>Note: Incoming call</i>
<b>ATH</b>	OK
<i>Note: Disconnect call</i>	<i>Note: Call accepted</i>
	OK
	OK <i>Note: Call disconnected</i>

## 2.4 SMS

### 2.4.1 Initialize SMS

#### 2.4.1.1 New Message Indication

Put "AT+CNMI=0,1,1,1,0" to Enable New Message Indication, SMS-DELIVERs are directly stored, SMS-STATUS- REPORTs are displayed, more details at data sheet.

#### 2.4.1.2 Set Mode Parameters

Send "AT+CSMP=17,169,0,0" to Set text mode parameters ,SMS-SUBMIT message with a validity period (one day).

#### 2.4.1.3 Set Text Format

The message formats supported are text mode (ASCII) and PDU mode (HEX).

COMMAND	POSSIBLE RESPONSES
AT+CMGF ?	+CMGF: 1 OK
<i>Note: Current message formatNote: Text mode</i>	
AT+CMGF=?	+CMGF: (0-1) OK
<i>Note: Possible message format</i>	<i>Note: Text or PDU modes are available</i>

Example, sending an SMS Message in PDU mode

COMMAND	POSSIBLE RESPONSES
AT+CMGF=0	OK
<i>Note: Set PDU mode</i>	<i>Note: PDU mode valid</i>
AT+CMGS=14<CR> 0001030691214365000004C9E9340B	+CMGS: 4 OK
<i>Note: Send complete MSG in PDU mode, no SC address Note: MSG correctly sent, &lt;mr&gt; is returned</i>	

### 2.4.2 Read SMS

#### 2.4.2.1 Read list

This command allows the application to read stored messages, by indicating the type of the message to read.

Command Syntax: **AT+CMGL=<stat>**

Response syntax for text mode:

**+CMGL : <index>,<stat>,<da/oa>[,<alpha>], [<scts>,<tooa/toda>,<length>] <CR><LF><data>** (for **SMS-DELIVER** and **SMS-SUBMIT**, may be followed by other **<CR><LF>+CMGL:<index>...**)

**+CMGL : <index>,<stat>,<fo>,<mr>,[<ra>],[<tora>],<scts>,<dt>,<st>** (for **SMS-STATUS-REPORT** only, may be followed by other **<CR><LF>+CMGL:<index>...**)

Response syntax for PDU mode :

**+CMGL : <index>,<stat>,[<alpha>], <length> <CR><LF> <pdu>** (for **SMS-DELIVER**, **SMS-SUBMIT** and **SMS-STATUS-REPORT**, may be followed by other **<CR><LF>+CMGL:<index>...**)

COMMAND	POSSIBLE RESPONSES
<b>AT+CMGL="REC UNREAD"</b>	<b>+CMGL: 1,"REC UNREAD","0146290800",</b> <b>&lt;CR&gt;&lt;LF&gt; Unread message !</b> <b>+CMGL: 3,"REC UNREAD","46290800",&lt;CR&gt;&lt;LF&gt;</b> <i>Another message unread!</i> <b>OK</b>
<i>Note: List unread messages in text mode</i>	<i>Note: 2 messages are unread, these messages will then have their status changed to "REC READ" (+CSDH:0)</i>
<b>AT+CMGL="REC READ"</b>	<b>+CMGL: 2,"REC READ","0146290800",</b> <b>&lt;CR&gt;&lt;LF&gt;</b> <i>Keep cool</i> <b>OK</b>
<i>Note: List read messages in text mode</i>	<b>OK</b>
<b>AT+CMGL="STO SENT"</b>	<b>OK</b>
<i>Note: List stored and sent messages in text mode</i>	<i>Note: No message found</i>
<b>AT+CMGL=1</b>	<b>+CMGL: 1,1,,26</b> <b>&lt;CR&gt;&lt;LF&gt;</b> <b>07913366003000F3040B913366920547F4001300119041</b> <b>2530400741AA8E5A9C5201</b> <b>OK</b>
<i>Note: List read messages in PDU mode</i>	<b>OK</b>

**<stat>** possible values (status of messages in memory):

Text mode possible values	PDU mode possible values	Status of messages in memory
<b>"REC UNREAD"</b>	0	received unread messages
<b>"REC READ"</b>	1	received read messages
<b>"STO UNSENT"</b>	2	stored unsent messages
<b>"STO SENT"</b>	3	stored sent messages
<b>"ALL"</b>	4	all messages



### 2.4.2.2 Read One SMS

Example :

COMMAND	POSSIBLE RESPONSES
	AT+CMTI: "SM",1 <i>Note: New message received</i>
AT+CMGR=1	+CMGR: "REC UNREAD","0146290800", "98/10/01,18:22:11+00",<CR><LF> ABCdefGHI OK <i>Note: Read the message</i>
AT+CMGR=1	+CMGR: "REC UNREAD","0146290800", "98/10/01,18:22:11+00",<CR><LF> ABCdefGHI OK <i>Note: Read the message again</i>
AT+CMGR=2	+CMS ERROR: 321 <i>Note: Error : invalid index</i>

### 2.4.3 Send SMS

The <address> field is the address of the terminal to which the message is sent. To send the message, simply type, <ctrl-Z> character (ASCII 26). The text can contain all existing characters except <ctrl-Z> and <ESC> (ASCII 27).

COMMAND	POSSIBLE RESPONSES
AT+CMGS="+33146290800"<CR> <i>Please call me soon, Fred. &lt;ctrl-Z&gt;</i> <i>Note: Send a message in text mode</i>	+CMGS: <mr> OK <i>Note: Successful transmission</i>

## 3 Driver Functions

### 3.1 Internal Functions

#### 3.1.1 CheckMobileNumber

<i>Format</i>	Void CheckMobileNumber (U8_t* MobileNumber_ptr, U8_t NumberLength)
<i>Description</i>	This function used to check the mobile number is correct or not, check for the first number = 0 , second = 1 , (third = 0 or 1 or 2) and length=11
<i>Argument</i>	-NumberLength : should be equalled MAX_DIGITS_OF_MOBILE_NUMBER -pointer to the ASCII number
<i>Return value</i>	BOOLEAN to check for Errors



### 3.1.2 itoa\_Convert

<i>Format</i>	Void itoa_Convert (U16_t Number , U8_t * NumberASCII_ptr)
<i>Description</i>	This function used to convert integer number to ASCII
<i>Argument</i>	-Number, max. digits of it should be equaled MAX_DIGIT_FOR_ITOA -pointer to the ASCII number after Conversion
<i>Return value</i>	none

## 3.2 Global Functions

### 3.2.1 EF\_B\_Wavecom\_InitModule

<i>Format</i>	EF_B_Wavecom_InitModule (void);
<i>Description</i>	This function used to initialize GSM Module: <ul style="list-style-type: none"><li>• disable Echo</li><li>• Enable General Indication</li><li>• Enable General Error Indication</li><li>• no flow control</li><li>• check for PIN code ready</li><li>• check if the module is ready to receive or not</li><li>• check the network registration</li></ul>
<i>Argument</i>	NONE
<i>Return value</i>	BOOLEAN to check for Errors

### 3.2.2 EF\_B\_Wavecom\_InitSms

<i>Format</i>	EF_B_Wavecom_InitSms (Wavecom_Sms_cfg_str* Wavecom_Sms_cfg_ptr);
<i>Description</i>	This function used to set the SMS Indication Commands
<i>Argument</i>	Wavecom_Sms_cfg_ptr is a pointer to Wavecom_Sms_cfg_str to configure the SMS Indication Commands.
<i>Return value</i>	BOOLEAN to check for Errors

### 3.2.3 EF\_B\_Wavecom\_SendSms

<i>Format</i>	EF_B_Wavecom_SendSms (U8_t* MobileNumber_ptr, U8_t NumberLength, U8_t* SendData_ptr, U16_t DataLength);
<i>Description</i>	This function used to Send SMS
<i>Argument</i>	MobileNumber_ptr: pointer to Mobile Number in "ASCII" NumberLength : has the length of Mobile Number

	SendData_ptr : pointer to the data which you want to send as SMS DataLength : length of the data which you want to send as SMS
<i>Return value</i>	BOOLEAN to check for Errors

#### 3.2.4 EF\_B\_Wavecom\_ReadSms

<i>Format</i>	EF_B_Wavecom_ReadSms (Wavecom_ReadSms_cfg_str* Wavecom_ReadSms_cfg_ptr);
<i>Description</i>	This function used to Read SMS
<i>Argument</i>	Wavecom_ReadSms_cfg_ptr is pointer to Wavecom_ReadSms_cfg_str to define what types of SMS which you want to read
<i>Return value</i>	-1 : Error 0 : SMS is not found <number>: SMS length

#### 3.2.5 EF\_B\_Wavecom\_InitCall

<i>Format</i>	EF_B_Wavecom_InitCall (Wavecom_Call_cfg_str* Wavecom_Call_cfg_ptr);
<i>Description</i>	This function used to configure the indication for incoming Call.
<i>Argument</i>	Wavecom_Call_cfg_ptr is pointer to Wavecom_Call_cfg_str to define which indication is wanted to be enabled.
<i>Return value</i>	BOOLEAN to check for Errors

#### 3.2.6 EF\_B\_Wavecom\_Call

<i>Format</i>	EF_B_Wavecom_Call (U8_t* MobileNumber_ptr ,U8_t NumberLength)
<i>Description</i>	This function used to check number then call
<i>Argument</i>	MobileNumber_ptr: pointer to Mobile Number in "ASCII" NumberLength : has the length of Mobile Number
<i>Return value</i>	-1: Communication error 0: MobileNumber is wrong 1: OK

#### 3.2.7 EF\_B\_Wavecom\_CallAnswer

<i>Format</i>	EF_B_Wavecom_CallAnswer (void);
<i>Description</i>	This function used to answer to the incoming call.
<i>Argument</i>	NONE
<i>Return value</i>	BOOLEAN to check for Errors

### 3.2.8 EF\_B\_Wavecom\_CallRelease

<i>Format</i>	EF_B_Wavecom_CallRelease (void);
<i>Description</i>	This function used to end the call.
<i>Argument</i>	NONE
<i>Return value</i>	BOOLEAN to check for Errors