



Development  
Tools

## **SERVE M2M MARKETS WITH OPEN AT**

Open AT opens the door to unlimited application development in the wink of an eye. The latest version of Wavecom's high level, easy-to-use development tool enables you to embed and run wireless applications based on simple, standardized AT commands right on the WISMO platform. And since Open AT has been selected by dozens of developers worldwide, you can share building blocks with a rapidly growing developers' community.

The bottom line is more rapid, less costly development of your own wireless voice and data applications. Available with the Wavecom solutions for Machine-to-Machine, Automotive, Mobile Computing and PDA applications, Open AT helps you get your ideas to market faster than ever.

### **CUT COSTS AND STREAMLINE DEVELOPMENT**

#### **Cut solution costs**

By eliminating extra components and incorporating existing building blocks and exchanging application software with other Open AT users.

#### **Start at no cost**

With free software development kit, no licence fees and free compiler.

#### **Shorten time to market**

By reducing hardware design, software development, test and validation cycles.

#### **Find the functions and tasks you need**

By using the Application Development Layer to automatically manage network and SIM events, GPRS/GSM/V.24 data flows, application timers, GPIOs, and more.

#### **Design innovative applications**

By taking advantage of the full GSM/GPRS Class 10, downloading and updating over the air your Open AT applications and managing external peripherals through UART's, GPIO's and buses.

**wavecom** 

WIRELESS SOLUTIONS FOR EVERYONE

# OPEN AT SPECIFICATIONS

## OPEN AT SOFTWARE DEVELOPMENT KIT CONTENTS

1 CD-ROM including:

- Technical specifications
- Open AT development tools for PC:
  - Open AT emulator on PC : to debug your Open AT applications (step by step execution, memory dumps...)
  - Target monitoring tool to debug your Open AT application running on Wismo (get the Open AT applications traces)
  - Free compiler
  - Advanced compiler for optimized code size and performances (option)
- Examples of Open AT applications
- + Technical support
- + Access to software upgrades, access to Open AT dedicated web site and information
- + Optimized C compiler/linker (option)

## PRODUCT FEATURES

Compatible with Wavecom GSM or GSM/GPRS products.  
Resources available for Open AT applications:

### On Q2406B and Q2426B modules, Fastrack M1206B, M1306B and Integra M2106B modems

Spare Memory	512 kB of code (flash) memory 128 kB of RAM 128 kB of Non Volatile (flash) memory for objects 256 kB of DOTA memory (for over the air download)
Spare Processing Power	1.5 MIPs in full GPRS class 10 transmission 6 MIPs in disconnected mode (communication software deactivated) 5 MIPs in GSM/GPRS idle mode

Open AT is also compatible with Q2403A and Q2400A modules.

## INTERFACES

All the AT commands supported on Wavecom products are available through Open AT

APIs available to Open AT applications developers:

- AT commands-related APIs:
  - Send AT commands
  - Send and subscribe to unsolicited/intermediate indications
- OS-related APIs:
  - Start/Stop timer
  - Read/Write/Delete objects stored in flash memory
  - Init/Get/release memory
- V24/Data flow-related APIs:
  - Open/close flow
  - Send/Receive Data
- Hardware interfaces related APIs:
  - I2C bus management
  - SPI bus management
  - GPIO management
  - Audio related APIS
  - Tone and DTMF
- Application management (Open AT V2.x):
  - Download of Open AT applications over the air
  - Application development layer (ADL) (including simple APIs for standard operations, AT message parser, state machines,...)
- Hardware interfaces available on Wavecom modules (Q24x6) through AT/Open AT:
  - 2 serial links
  - GPIOs
  - I2C bus
  - SPI bus
  - Interrupt pin
  - Keypad interface
  - Buzzer

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