



SERVE M2M MARKETS WITH OPEN AT 2.0

MUSE Platform Open AT 2.0 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 AT developers' community.

The bottom line is more rapid, less costly development of your own wireless voice and data applications. Available with the Wavecom Development Labs for Machine-to-Machine, Automotive, Mobile Computing and PDA applications, MUSE Platform Open AT 2.0 helps you get your ideas to market faster than ever.

CUT COSTS AND STREAMLINE DEVELOPMENT

Shorten time to market

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

Cut development costs

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

Shrink hardware footprints

By increasing integration levels and avoiding unneeded subsystems

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 implementing Class 10 GSM/GPRS, downloading new Open AT applications over the air and managing external peripherals through I2C, SPI buses

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MUSE PLATFORM SPECIFICATIONS

OPEN AT SOFTWARE DEVELOPMENT KIT CONTENTS

- 1 CD-ROM including:
 - Technical specifications
 - Open AT development tools for PC:
 - target monitoring tool to provide debug information from the embedded application
 - serial link manager to establish communications with Wavecom products via the PC serial link
 - terminal emulator to send/receive commands to/from the Wavecom products
 - remote task environment to execute an embedded application from a PC in remote mode
 - target binary file generator to generate the application binary file, ready to be downloaded into a Wavecom product
 - Examples of Open AT applications
- + Technical support
- + Access to software upgrades, access to Open AT dedicated web site and information
- + C compiler/linker (option)

PRELIMINARY REQUIREMENTS

- To develop Open AT applications, you need:
- 1 PC: minimum Pentium 300 MHz, 64 MB of RAM, 500 MB free on the hard disk, 2 or 3 serial ports available
 - Windows 95 or higher
 - Microsoft Visual C++ V6.0 or higher
 - 1 ARM compiler/linker (available as an option with the Open AT SDK)
 - 1 Wavecom module or Integra modem starter kit including evaluation boards and accessories
 - 1 Wavecom Open AT Software Development Kit

PRODUCT FEATURES

Compatible with GSM or GSM/GPRS firmware.

Hardware resources available for Open AT applications:

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DDS Electronics Europe BV

- Memory:
 - GSM / GPRS class 2
 - 320 KB of Code memory (flash) or 301.5 KB of Code memory with ADL
 - 32 KB of RAM memory
 - 5 KB of Non volatile memory
 - GSM/GPRS Cl. 10
 - 512 KB of Code memory (flash) or 493,5 KB of Code memory with ADL
 - 64 KB of RAM memory
 - 128 KB of Non volatile memory

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 data in flash memory
 - Init/Get/release memory
 - Delete objects stored in flash memory
- V24/Data flow-related APIs:
 - Open/close flow
 - Send/Receive Data
- Hardware interfaces related APIs:
 - I2C bus management
 - SPI bus management
 - GPIO management
- 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, automats,...)
- Hardware interfaces available through AT/Open AT:
 - Wavecom modules: serial link, GPIOs, I2C bus, SPI bus, keypad interface, buzzer
 - Wavecom Integra modems: serial link, GPIOs, I2C bus, SPI bus, keypad interface

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