# GET CONNECTED WITH INTERNET AND TCP/IP PLUG-INS

Empower your machines and automotive systems with wireless connectivity. Wavecom's pre-packaged solutions now include Internet and TCP/IP Plug-Ins allowing you to do just this, offering a means to efficiently connect to existing infrastructure and IT systems, transfer data, control & monitor applications and implement intelligent e-maintenance architectures with DOTA.

Download-Over-The-Air (DOTA) for GSM allows both the embedded Open AT® application and the core Wavecom Operating System to be downloaded remotely, protecting investment and reducing cost of ownership.

Choose from two different Plug-In feature sets for Wavecom's Operating Systems depending on the application you're developing. The entry level M2M407 "TCP/IP" package includes the complete Wavecom Operating System plus the TCP/IP Plug-In enabling basic Internet connectivity for GSM/GPRS and CDMA. For advanced GSM/GPRS applications, choose the M2M410 "INTERNET" package which adds the ability to send/receive emails and upload/download any number and type of files from a remote server via FTP (File Transfer Protocol).

## GRAB THE POWER OF THE INTERNET

### Get instant Internet connectivity
with a pre-packaged module or modem based solution from Wavecom, reducing Time To Market.

### Access information the way you want
via Internet, email or file transfer.

### Save time, space and money
with an integrated solution that enables e-maintenance of your applications remotely.

### Benefit from established communications standards
thanks to GSM/GPRS, CDMA and Internet standards such as TCP, IP, UDP, DNS, PING, POP3*, SMTP*, FTP*.

### Flexible architectures
are enabled via embedded mode using Open AT® (GSM/GPRS) or external mode using AT# and AT commands (GSM/GPRS and CDMA).
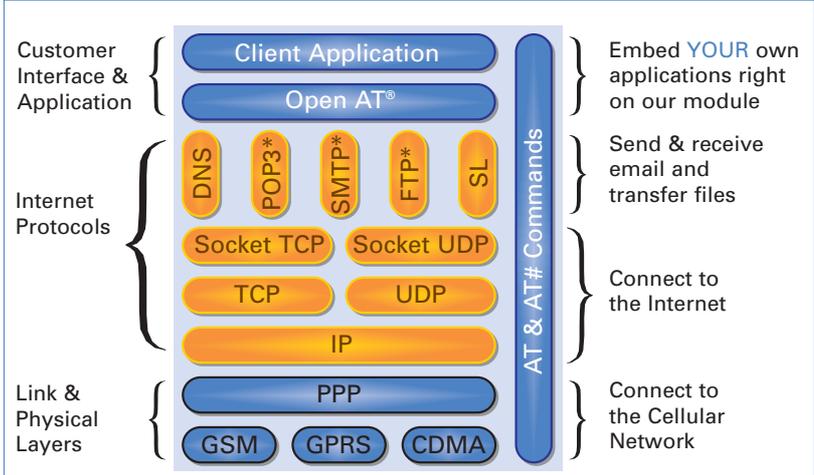
**wavecom**

# SPECIFICATIONS
## INTERNET & TCP/IP PLUG INS

## PLUG INS

### INTERNET CONNECTIVITY

Choose from two solutions, both supporting Open AT® for GSM/GPRS.

M2M410 : **Internet Plug-In** for GSM/GPRS
TCP, IP, UDP, DNS, PING, POP3, SMTP, FTP

M2M407 : **TCP/IP Plug-In** for GSM/GPRS/CDMA
TCP, IP ,UDP, DNS, PING (PING not supported by CDMA)

**Customer Interface & Application**
- Client Application
- Open AT®

Embed YOUR own applications right on our module

**Internet Protocols**
- DNS
- POP3*
- SMTP*
- FTP*
- SL
- Socket TCP
- Socket UDP
- TCP
- UDP
- IP

Send & receive email and transfer files

Connect to the Internet

AT & AT# Commands

**Link & Physical Layers**
- PPP
- GSM
- GPRS
- CDMA

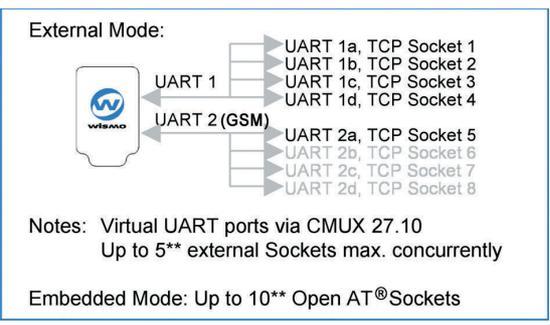Connect to the Cellular Network

### OPERATING MODES

- **Embedded:** use Open AT® APIs (GSM/GPRS) to eliminate or work alongside a co-processor.
- **External:** use an external co-processor to make wireless GSM/GPRS/CDMA Internet connections.

### ULTIMATE PORT FLEXIBILITY `New`

- GSM/GPRS OS 6.51 (July 2005)
- GSM/GPRS OS 6.55 (Autumn 2005)

External Mode:

- UART 1, TCP Socket 1
- UART 2 **(GSM)**, TCP Socket 2

Embedded Mode: Up to 10** Open AT® Sockets

### INTERNET FEATURES `New`

External Mode:

UART 1
- UART 1a, TCP Socket 1
- UART 1b, TCP Socket 2
- UART 1c, TCP Socket 3
- UART 1d, TCP Socket 4

UART 2 **(GSM)**
- UART 2a, TCP Socket 5
- UART 2b, TCP Socket 6
- UART 2c, TCP Socket 7
- UART 2d, TCP Socket 8

Notes: Virtual UART ports via CMUX 27.10
Up to 5** external Sockets max. concurrently

Embedded Mode: Up to 10** Open AT® Sockets

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- RFC compliant protocols
- PPP Connection (client/server)
    - Connectivity to any ISP
    - One dynamic IP address
- TCP/IP
    - IP v4
- TCP / UDP sockets
    - Multiple TCP sockets
    - Open/close session on a specific TCP / UDP port number
    - Use for incoming or outgoing TCP / UDP connections (listen/open)
- DNS client:
    - Domain Name Solving
- Email client:*
    - Send emails via SMTP (including pre-defined)
    - Receive emails via POP3
- File Transfer Client:*
    - Upload/download files via FTP
- Serial port interfaces:
    - Data transfer
    - AT# commands for GSM/GPRS
- GSM PING to check server availability
- Supervision Layer (GSM/GPRS):
    - Management of ISP connection
    - Auto initialisation

### PLATFORM REQUIREMENTS

- From GPRS OS 6.51
- From CDMA OS 2.13G & 2.13R
- From Open AT® SDK 3.02

`New`

| Hardware Platform | M2M410 Internet Plug-in | M2M407 TCP/IP Plug-in |
|---|---|---|
| Q2400A | | |
| Q2406A | | ● |
| Q2406B | ● | |
| Q2426B | ● | ● |
| Q2501B | ● | ● |
| M2106B | ● | ● |
| M1306B | ● | ● |
| Q2438F/-R | | ● |

\* Features available in GSM/GPRS M2M410 Internet Plug-In only
\*\* Supported by B memory hardware (max. 2 sockets for A memory hardware)

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