

# M2M modem

## FASTRACK GSM/GPRS MODEM

M1306B



### DEPEND ON A WIRELESS WORKHORSE

Wavecom's rugged, discrete Fastrack GSM/GPRS modem has proven itself for stable, reliable performance on wireless networks worldwide for more than five years. Updated with new features, the now legendary Fastrack continues to deliver rapid time to market and painless integration for machine-to-machine applications.

Housed in a rugged metallic casing, 25 mm shorter than the previous version, the Fastrack M1306B now offers two general purpose input/output access points, which can be multiplexed with an I2C bus to connect peripherals. In addition, the new serial auto shut down feature enables a programmable energy conservation mode especially valuable for battery-powered applications.

Fully certified, the dual-band 900/1800 MHz Fastrack M1306B offers GPRS Class 10 capability, supports Open AT and IT protocols such as IP connectivity.

### RUGGED MACHINE-TO-MACHINE RELIABILITY

#### Add wireless to existing applications

Such as remote control and monitoring, vending, fleet management and others.

#### Reduce extra components

By embedding your application right on the Wavecom platform with Open AT.

#### Save time

Thanks to a fully integrated, fully certified wireless solution.

#### Get connected

And benefit from wireless services: GSM/GPRS data, SMS and voice via a simple serial connection.

# M2M modem SPECIFICATIONS

## PRODUCT FEATURES

Dual Band GSM modem (EGSM900/1800 MHz) designed for data, fax, SMS and voice applications

Fully Type Approved

Fully compliant with ETSI GSM Phase 2 + Small MS

### Output power:

Class 4 (2W @ 900 MHz)

Class 1 (1W @ 1800 MHz)

Power supply:

**Input voltage:** 5V-32V

- 5mA in idle mode, 140mA in communication GSM 900 @ 12V

- 5mA in idle mode, 100mA in communication GSM 1800 @ 12V

- Peak 1,7A @ 5.5V

Overall dimensions: 73 x 54 x 25mm

Weight: 82g

## VOICE, DATA/FAX, SHORT MESSAGE SERVICES

### Voice features:

- Telephony
- Emergency calls
- Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
- Dual Tone Multi Frequency Function (DTMF)

### GSM Data/Fax features:

- Data circuit asynchronous, transparent and non transparent up to 14,400 bits/s
- Automatic fax group 3 (Class 1 and Class 2)
- MNP2, V.42bis

### GPRS packet Data features:

- GPRS Class 10, PBCC support
- Coding schemes: CS1 to CS4
- Compliant with SMG31bis
- Embedded TCP/IP stack

### Short Messages Services features:

- Text and PDU
- Point to point (MT/MO)
- Cell Broadcast

## GSM SUPPLEMENTARY SERVICES

- Call Forwarding
- Call Barring
- Multiparty
- Call Waiting and Call Hold
- Calling Line Identity
- Advice of Charge

- Closed User Group
- Explicit Call Transfer

## OTHER FEATURES

- Advanced Open Software Platform: MUSE Platform Open AT
- Fixed Dialling Number
- SIM Toolkit Class 2
- SIM, network and service provider locks
- Real Time Clock
- Alarm management
- Software upgrade through Xmodem protocol
- UCS2 character set management

## INTERFACES

- RS-232 and audio through mini sub-D 15-pin connector supporting:
  - Serial link autosutdown controlled by software (AT)
  - Baud rate
  - Autobauding

### AT commands interface:

- GSM 07.05 and 07.07 AT commands
- comprehensive set of enhanced AT commands

### Open AT APIs:

- numerous interfaces for embedded applications
- 2x GPIOs/I2C (multiplexed) + power supply through micro-FIT 4-pin connector
- SMA antenna connector
- Sliding SIM holder (3V SIM interface)

## APPROVALS

The M1306B is approved worldwide under test standards including; Radio and Telecommunication Terminal Equipment (R&TTE), Global Certification Forum – Certification Criteria (GCF-CC), EMC, Safety and Chinese approvals

## DELIVERABLES

- User guide
- Power supply cable
- Y-cable for data and audio connection (optional)
- Fixing equipment

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