



INTEGRA

GSM/GPRS - M2106B

Hardware
Platform



MAKE YOUR MACHINES WIRELESS

Now you can find all the GSM/GPRS voice and data capability you need in a single, compact unit. Fully certified, the Wavecom Integra M2106B offers state-of-the-art class 10 GPRS capacity and an embedded TCP/IP stack, for e-mail, Internet and other data communications usage. WISMO Within technology ensures stable, reliable performance on GSM/GPRS networks for the life of your application.

Small enough to fit into the tightest spaces, the Integra M2106B modem enables you to add full function wireless capability to existing systems. Thanks to Open AT, Wavecom's distinctive open software platform, you can embed your application right on the modem, using the built-in spare processing and memory capacity to eliminate extra components and subassemblies.

The Wavecom Integra M2106B modem has been optimized for use as the best in class compact modem for wireless Machine-to-Machine applications.

MACHINE-TO-MACHINE FRIENDLY

Save time and space

With a fully type-approved, compact solution that integrates all the necessary GSM/GPRS digital and analog ingredients

Get connected

With the optional embedded TCP/IP stack

Develop advanced, customized data functions

Thanks to Class 10 GPRS and Open AT development tools that enable you to materialize your ideas quickly and easily

Eliminate extra components & subassemblies

By employing Open AT tools to embed your application right on the modem, using built-in spare processing capacity and memory

wavecom

WIRELESS SOLUTIONS FOR EVERYONE

INTEGRA M2106B SPECIFICATIONS

PRODUCT FEATURES

Dual band integrated EGSM/GPRS modem (900/1800 MHz)
Fully Certified
Compliant with ETSI GSM Phase 2+ standard
Class 4 (2W @ 900 MHz)
Class 1 (1W @ 1800 MHz)
Power supply:
● 5VDC / 1.5A
● 310mA average current in communication (GSM900, 0% DTX, Pmax)
● 9mA in idle mode with power saving mechanism activated
● Peak 1.32A @ 5V
Overall dimensions: 46 x 64 x 12mm
Weight: 71g

VOICE, GSM CIRCUIT DATA/FAX, GPRS PACKET DATA, SHORT MESSAGE SERVICES

Voice features (GSM mode):

- Telephony
- Emergency calls
- Full rate, enhanced full rate and half rate (FR/EFR/HR)
- Dual tone multi frequency Function (DTMF)

GSM circuit 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,
- Coding schemes: CS1 to CS4
- PBCCH support
- Optional embedded TCP/IP stack and Internet application protocols

Short Messages Services features (GSM or GPRS mode):

- 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
- USSD
- Closed User Group
- Explicit Call Transfer

OTHER FEATURES

- ME+SIM phone book management
- Fixed Dialling Number
- SIM, network and service provider locks
- Real Time Clock
- Alarm management
- Software upgrade through Xmodem protocol
- UCS2 character set management

INTERFACES

MMCX antenna connector for 900 and 1800/1900 MHz
Internal 3V SIM reader
50-pin board to board connector including the following interfaces:

- 3V SIM
- Audio: microphones and speakers
- Power supply
- Serial link supporting:
 - Serial baud rate from 300 to 115,200 bits/s
 - Autobauding
- Keypad
- General Purpose I/Os
- General Purpose Serial Interface
- Analog to Digital Converter

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

SIM Toolkit release 99

APPROVALS

The modems are approved worldwide under test standards including: Radio and Telecommunication Terminal Equipment (R&TTE), Global Certification Forum – Certification Criteria (GCF-CC), EMC, Safety

MOUNTING

- Vertical and horizontal mounting
- Board to board / board to cable connection

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