



b-box

All-in-One Wireless Gateway

- **GSM** for Mobile Telephony -
Voice & SMS
- **GPRS** for Mobile Data -
Email & Internet
- **GPS** for Instant Positioning
Navigation & Tracking
- **Bluetooth** for Use with Many
Peripherals (class1 - over 100m range)
(Headset - PDA - Barcode Scanner - etc...)

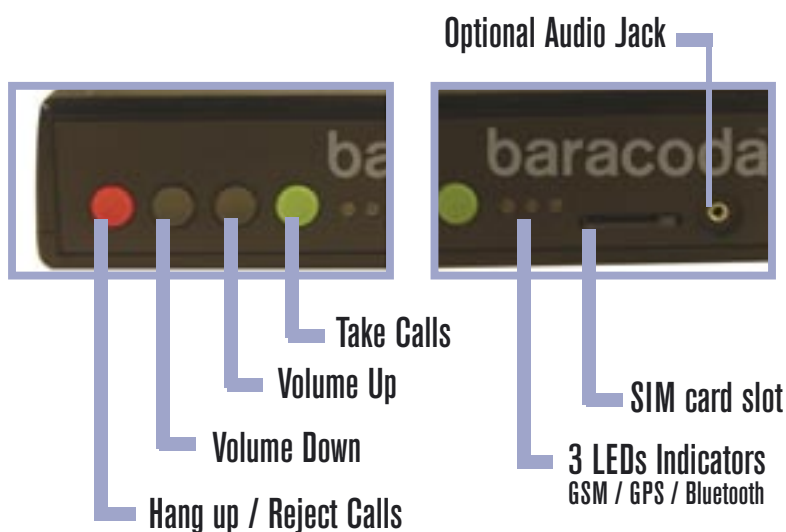


More than just a secure and easy-to-use Handsfree Kit...



Get your mobile workforce always connected with you and your IS...

Just send a SMS to b-box to instantly receive its location - transparent to driver!



Business Applications

- Fleet management, tracking
- AVL - Automatic Vehicle Location
- On board telematic unit
- Security, alarms, localization





b-box Technical Specifications

General Specifications

ENVIRONMENT AND MECHANICS

Operating range: -35°C to +85°C
 Storage range: -40°C to +85°C
 Overall dimensions: 115 x 115 x 35 mm
 Weight: 250gr
 Power Supply: AC In 9-24V / battery 3.6 V

APPROVALS

Approved worldwide under test standards such as Radio and Telecommunication Terminal Equipment (R&TTE) and Global Certification Forum (GCF).
 Automotive environmental qualification (temperature / humidity / vibration / ...)
 Bluetooth Qualified

COMPATIBILITY

Full set of more than 600 AT commands
 GSM 07.05 and 07.07
 GSM, GPS and Bluetooth dedicated AT commands

OPTIONAL PROTOCOLS

IP Connectivity: TCP/IP, Email (POP3, SMTP), File Transfer (FTP)

CELLULAR EMBEDDED APPLICATION ENVIRONMENT

Develop applications on the Gateway with "Open AT by Wavecom"

Bluetooth Specifications

Protocol: Bluetooth® 1.2
Output power: 17dBm max. (Class1)
Antenna gain:+2.14dBi (typical)
Range: Over 100 meters
Carrier Frequency: 2.4GHz – 2.4835GHz (ISM)
Modulation: GFSK, 1Mbps, 0.5BT Gaussian
Receive sensitivity: -80dBm typ.
Processor: RISC 16-bits
Flash: 8Mbits
RAM: 32kb

GSM/GPRS Specifications

GSM FEATURES

E-GSM 900/1800
 ETSI GSM Phase 2+
 Class 4(2W @ 900 Mhz)
 Class 1 (1W @ 1800 Mhz)
 260 mA average current in voice Communication (GSM900, Pmax)
 <3,5mA in idle mode
 SIM Toolkit release 99
 Internal Temperature sensor

VOICE FEATURES

Voice features (GSM mode)
 Telephony, emergency calls 112
 Full rate, enhanced Full rate, Half rate (FR/EFR/HR)
 Echo cancellation and Noise Reduction
 Full duplex hands free

DATA FEATURES

GPRS Class 10 (Up to 4Rx or 2Tx)
 PBCC support
 Coding Schemes: CS1 to CS4
 Data circuit asynchronous, transparent and non transparent up to 14400 bit/s
 SMS Point-to-Point MT/MO and SMS CB
 EMS

GSM SUPPLEMENTARY SERVICES

Call Forwarding, Call Barring
 Multiparty
 Call Waiting, Call Hold
 USSD

GPS Specifications

Receiver: 16 channel, L1 frequency, C/A code
Accuracy: 3 m CEP, GPS 2 m CEP (Depending on accuracy of correction data)
Start-up Times: Hot start 3.5 sec - Warm start 33 sec - Cold start 41.5 sec
Signal reacquisition < 1 s
Protocols:
 NMEA-0183 Input/Output
 UBX binary Input/Output
 RTCM in
Antenna: Embedded GPS active antenna



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