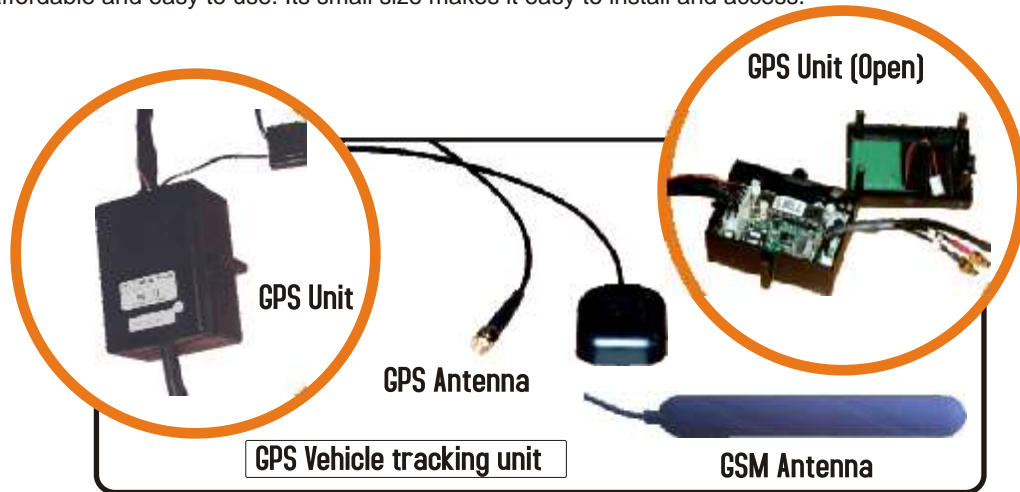


Integrated Vehicle Tracking and Communication System

An instantaneous tracking and logging system for autos, trucks, police department, delivery services, concerned parents of teenage children, etc. This revolutionary new tracking device combines GPS with GSM digital cellular technology using a PC or laptop without going through the Internet. BioEnable's GSM/GPS Vehicle Tracker system is compact, reliable, affordable and easy to use. Its small size makes it easy to install and access.



Features:

- Optimized as car security system
- Easy installation similar to existing car alarm systems
- Geo Fencing status shown by LED
- GSM-SMS and GPRS connectivity
- Wireless configuration and parameter setup
- Battery Backup

GPS Specifications:

- Frequency L1, 1575.42 MHz
- C/A code 1.023 MHz chip rate
- Channels 12 Accuracy
- Position 25 meters CEP without SA
- Velocity 0.1 meters/second, without SA
- Time 1 microsecond synchronized to GPS time
- 1.3 DGPS Accuracy
- Position 1 to 5 meters, typical
- Velocity 0.05 meters/second, typical
- 1.5 Acquisition Rate
- Snap Start <3 sec., average
- Hot start <8 sec., average
- Warm start <38 sec., average
- Cold start <45 sec., Average

Case Environmental Characteristics:

- Communication and GPS ONLINE (in power saving mode) : Fully charged battery (5 Volt – 5*1.2 Volt- 650mA) last about 7 Hours with GPS and Communication ON LINE (GPS in power saving mode)
- Communication and GPS OFFLINE (sleep mode): Fully charged battery (5 Volt – 5*1.2 Volt- 650mA) last about 26 Hours with GPS OFFLINE and Communication ON LINE.

* Depends on battery age, last charge, approximate only

Unit Range:

- Anywhere in the world within GSM Mobile Phone coverage.

GSM modem Specifications:

- E-GSM/GPRS 900 / 1800 dual or quad band module 850/900/1800 and 1900
- 58.3 x 32.2 x 3,9 mm [TBC]
- 2 Watts EGSM radio section running under 3,6 Volts
- 1 Watt GSM1800 radio section running under 3,6 Volts
- Digital section under 2.8 Volts
- 3V SIM interface
- Real Time Clock with calendar
- Echo Cancellation + noise reduction
- Full GSM/GPRS software stack
- Hardware GPRS class 2 capable
- Complete shielding
- SIM card

Case Environmental Characteristics:

- Communication and GPS ONLINE (in power saving mode) : Fully charged battery (5 Volt – 5*1.2 Volt- 650mA) last about 7 Hours with GPS and Communication ON LINE (GPS in power saving mode)
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* Depends on battery age, last charge, approximate only

Unit Range:

- Anywhere in the world within GSM Mobile Phone coverage.

Electrical Characteristics:

- Input Voltage: + 12V or +6 Volt DC regulated / 2A-MAX (GSM Transmit)
- Power Consumption: 12 Volt – 200 mA (GPS On Line)
(GSM Modem On Line)
- 12 Volt – 100 mA (GPS in Power Down Mode)
(GSM Modem On Line)
- 12 Volt – 5mA (GPS in Power Down Mode)
(GSM Modem Standby)
- Backup Power: Nickel Metal Hydride Battery – 650-800 mA
- Memory Backup: Flash Memory – Data retention – 200 Years.
- 64 Kbyte (64000 * 8 Bits data)
- Up to 4000 individual locations can be saved
- Built in motion switch (the unit can be mounted in any position for activation).
- Four negative outputs (200mA max per output).
- Seven inputs (active low/high to activate input).
- Build in serial port (1200 to 38400 baud Rate) for external communication and firmware upgrade
- Detects external power loss.
- Internal Temperature Sensor
- * Power input protected against wrong connection and voltage >24 Volt
- * All Inputs are protected against high voltage

GPS Mouse



General

- Frequency L1, 1575.42 MHz
- C/A code 1.023 MHz chip rate
- Channels 12

DGPS Accuracy

- Position 3~7 meters, typical
- Velocity 0.05 meters, typical
- Datum: WGS-84

Accuracy

- Position 25 meters CEP without SA
- Velocity 0.1 meters/second, without SA
- Time 1 microsecond synchronized to GPS time

Dynamic Conditions

- Altitude 18,000 meters (60,000 feet) max
- Velocity 515 meters/second (1000 knots) max
- Acceleration 4g., max.
- Jerk 20 meters/second

Acquisition Rate

- Snap Start <3 sec., average
- Hot start <8 sec., average
- Warm start <38 sec., average
- Cold start <45 sec., Average

Temperature

- Operating range -40 deg. C to +85 deg.C.
- Storage range -55 deg. C to +100 deg. C.

DC Power

- Power Input: +3~5Vdc Version or 3AA Battery
- Supply Current: 78mA

Typical Physical Characteristics

- Length 65mm
- Width 41mm
- Weight 24mm
- Weight =100g

Interface & Protocol

- Serial communication, RS232,USB ,PS2, PDAs
- Adapter sync cable option.
- Defaut NMEA-0183, version2.20 with a baud rate selection status, and Control NMEA, RMC, VTG, GGA & GSV, 4800bps, 8, N,1.

BioEnable Technologies Pvt. Ltd.

C4/1, Rakshalekha Soc, Koregoan Park,Pune, MH, India. Tel: +91-20-26127181|+91-20-30911797|+91-20-26127374
Fax: +91-20-26141659 e-mail | Info@bioenabletech.com

FACE
LOCK



BioEnable Technologies Pvt. Ltd.

C4/1, Rakshalekha Soc, Koregoan Park, Pune, MH, India. Tel: +91-20-26127181|+91-20-30911797|+91-20-26127374
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