UWG-2200B

GPS Automatic Vehicle Locator

(GPS+GPRS AVL)

UWG-2200B

General Specifications:

Power Input (typical):

9~40 VDC, capable of 3A

Power Consumption:

1.8 W (Stand-by) 3.6W (Working)

RJ-45 x 6:

Connecting with other module(LCD, barcode re
module…multiple extending functions)

Digital I/O Ports:

Input: 3 x Function Input and Emergency x1
Signal: 4 x status light
Remark: Unable to connect with I/O function without I/O module Extra I/O module is necessary to connect with I/O function

GPRS:

TCP/IP for Data Transmission

Message Formats (GPS):

NMEA-0183

Output Data:

Vehicle ID, latitude, longitude, altitude, Speed, heading, times, status, satellites used

Command:

Proprietary format (will provide for software development)

Operating System:

Windows 95/98, Windows 2000 (Servers and Professional), Windows NT 3.0/4.0

Temperature:

Operating Temperature: -25°C to +65°C

Storage Temperature:

-30°C to +75°C

Standard Components

- In-vehicle Mobile Unit
- Power cable with 3A fuse

Accessories

- GPS antenna/cable

- GPRS antenna/cable
- Power cable
- Emergency button cable

Physical Specifications

Size: 120mm x 96mm x 35mm

GPRS Modem Specifications

- Band GSM modem (900/1800/1900)
- Normal MS (Mobile Station)
- Compliant with ETSI GSM Phase 2+ standard
- RF Power: 2W @ 900 MHz (Class 4)
  1W @ 1800 MHz (Class 1)
  1W @ 1900 MHz (Class 1)
- External 3V/5V SIM Card
- GPRS mobile station class B
- GPRS multi-slot class 8

GPS Engine Specifications

General:

- Frequency: L1 Frequency (1,575.42 MHz)
- C/A Code: 1.023 MHz chipping rate
- Channels: 12

Accuracy:

- Position: 5~20 meters (without SA)
- Velocity: 0.1 meter/second (without SA)
- Time: 1 microsecond synchronized to GPS time

DGPS Accuracy: (special, optional device required)

- Position: 1 to 5 meters (typical)
- Velocity: 0.05 meter/second (typical)

Datum: WGS-84 (World Geodetic System 1984)

Acquisition Rate:

- Reacquisition: 1 second
- Hot Start: 8 second (average)
- Warm Start: 38 second (average)
- Cold Start: 50 second (average)

Dynamic Conditions:

- Altitude: <18,000 meters (60,000feet)
- Velocity: <515 meters/second (1000 knots)
- Acceleration: <4g

Data Transmission:

- Interface: full duplex serial communication
- Baud Rate: 4,800 bps (standard)
- Protocol Message: (Standard: NMEA-0183 RMC)

(1) NMEA-0183 (version 2.20) GGA, GSV, RMC, VTG, GLL and GSA messages

AVL Applications

Addressed to all businesses for the optimization of fleet management such as:

- Transportation / Distribution
- Courier, Post Office
- Passenger Transportation
- Emergency Response
- Mobile Crews
- Car Rental / equipment
- Utilities
- Construction
- Food and Beverage
- .other

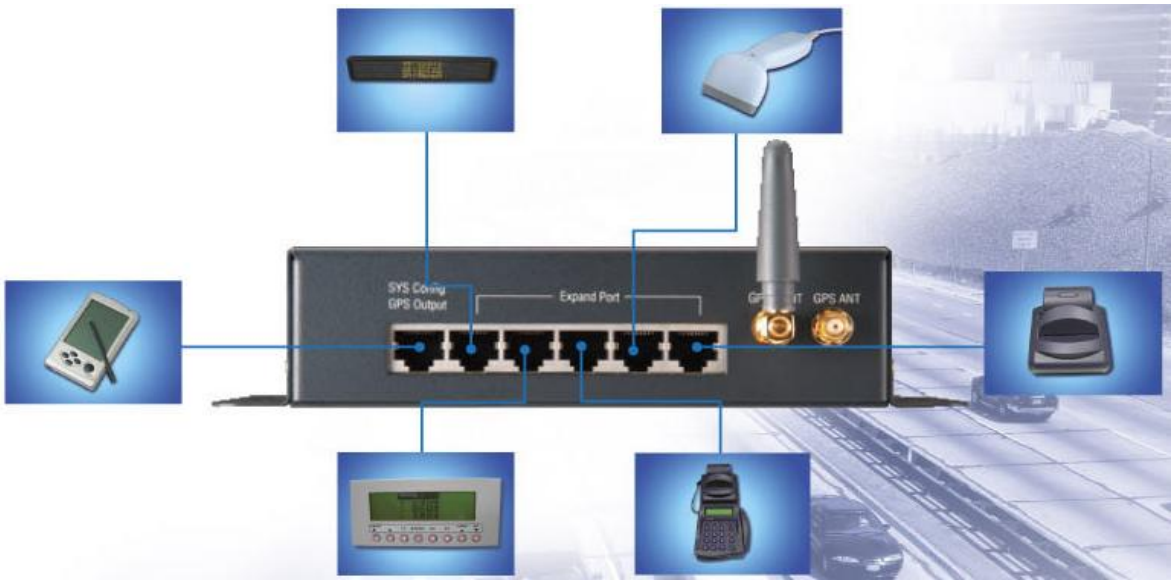
AVL + GIS Function

Optimization of fleet management

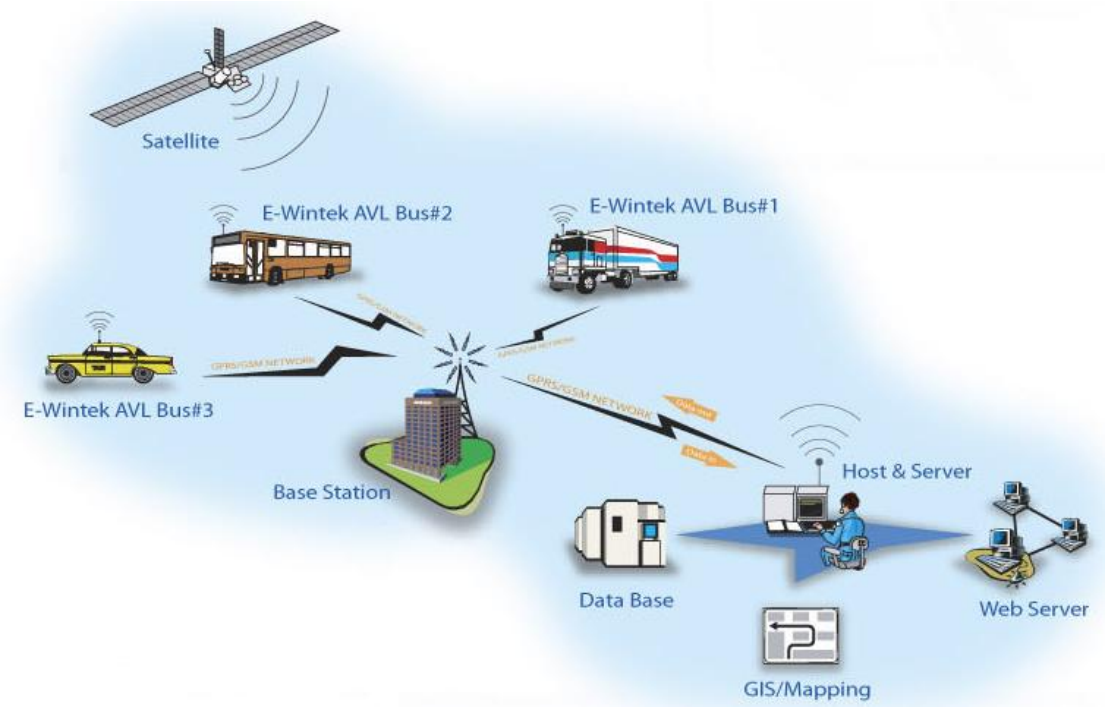
- GPRS Communication
- Remote/ Direct Parameter setting up
- Remote/ Direct Power Management configuration
- Remote Timer setting up
- Voice Wiretapping
- Real-time Tacking
- Trip Logging (By 4MB Ram module for Blind area)
- Direct Input/Output control
- Input Triggered polling
- At least 45,000 logging function
- Geofencing function (circle/ polygon)
- At least 6 month data logging function upgradeable.
- Report to the pre-set 7 Phone number at most (SMS or Voice) once event occurred
- Multiple user-defined reports
- Remote/Direct Password setting up

Peripherals for M commerce affairs

- PDA for Navigations or on line data marshalling
- Barcode reader for cargo control
- Data collector for on line data report
- LED Displays for immediate advertisement broadcast in /out vehicle
- LCD Displays for two way text dispatching and responding
- LCD Displays integrate Infrared Ray remote control or keyboard for entry container No.
- Printer for deliver receipt or Invoice
- Card reader for passenger control
- Credit card reader for commerce extension
- Valve cap for gas , fuel ,oil transportations control
- Digital vehicle recorder(DVR) for movement image recording
- Vibration sensor for Anti-theft



System Architecture



Optimization of timely business decisions.

The vehicle performance data, which are dynamically transmitted to the Company's Base Station as well as the whole fleet visibility, gives operation personnel the ability for timely, conclusions, critical business decisions based on what is really happening and matching of the right person to the right job.

Value added Services.

Fleet Manager Solution enables companies of all sizes to realize better quality customer service, improved efficiency, and reduced distribution and maintenance costs. Thereby reduced operating costs and maximization of all resources enable fleet managers and owners to accomplish cost effective products and optimized services which are leading companies straight to the differentiation from the competition

Quality Assurance

In consideration of providing customers the assured quality service, we have conducted successful experience in obtaining the current transportation that enables our R&D team and product to meet international quality standards.
We have been providing AVL total management solutions and GPRS application ODM for many companies in Taiwan. Our products quality is strongly assured by certificate from E mark. Contact with us today for your needs and ODM/OEM projects.

- E-Mark Certificate
- Temperature and Vibration Testing Approved
- Manufactured by QS9000/ISO9001 Company