About Us

We are **Atra Technologies**, an Embedded Experts having own production of embedded hardware and software with assured quality. We cater to Telecom, Mobile Applications & Embedded domains. Through our expertise in .NET & Open Source technologies we provide Application Development services.

We are involved in designing, programming and developing embedded software components and systems. Hence we position ourselves as a Techno-Commercial Company at Coimbatore [South India's Manchester] in India..

Our Products and Services

Atra Technologies engineering team possesses considerable experience in solution development for all modern operating systems, both Windows and UNIX.

- Point Of Sale Terminal
  This is an easy-to-use application for retailing businesses to track sales, inventory and customer information. The software can be easily customized for any business needs.

- Hand Held Devices
  A hand-held automatic token/ticket vending machine, designed for the users in the era of mobile business by providing on the spot solutions using latest GPRS and GPS technologies.

- Spinning Production Monitoring System

  Atra Online Spinning Production Monitoring System facilitates continuous monitoring of Production and Power at each machine individually and collectively. The data is processed to generate reports that help in seamless running of all operations and identify weak areas, help mills continuously to improve productivity, save costs, translating into higher profits.

- Weaving Production Monitoring System

  Atra Weaving Production Monitoring System collects data from the every single Loom automatically in the mill. The data is processed to generate reports that help in seamless running of all operations and identify weak areas, help mills continuously to improve productivity, save costs, translating into higher profits.

- Global Positioning System Tracker

  ATG01 is a specially designed vehicle locator with creative design and high quality configuration. With latest GPS SIRF-Star III chipset, it works by GPS/CDMA/GSM/GPRS. Even in most remote mountain areas, uses can get accurate location details.

Product Proposal

What is GPS TRACKER?

A vehicle tracking system combines the installation of an electronic device in a vehicle, or fleet of vehicles, with purpose-designed computer software to enable the owner or a third party to track the vehicle's location, collecting data in the process. Atra ATG01 vehicle tracking systems commonly use Global Positions System technology for locating the vehicle, but other types of automatic vehicle location technology can also be used. Vehicle information can be viewed on electronic maps via the Internet or specialized software.

Active versus Passive Tracking

Several types of Vehicle Tracking devices exist. Typically they are classified as "Passive" and "Active".

Passive Tracking

"Passive" devices store GPS location, speed, heading and sometimes a trigger event such as key on/off, door open/closed. Once the vehicle returns to a predetermined point, the device is removed and the data downloaded to a computer for evaluation. Passive systems include auto download type that transfer data via wireless download.

Active Tracking

"Active" devices also collect the same information but usually transmit the data in real-time via cellular or satellite networks to a computer or data center for evaluation.

Our Device

Our GPS vehicle tracking devices ATG01 combine both active and passive tracking abilities, when a cellular network is available and a tracking device is connected it transmits data to a server, when a network is not available the

device stores data in internal memory and will transmit stored data to the server later when the network becomes available again.

Common uses

Vehicle tracking systems are commonly used by

- Fleet operators
    - Fleet management functions such as routing, dispatch, on-board information and security.
- Commercial fleet operators
    - Commercial fleet operators urban transit agencies use the technology for a number of purposes, including monitoring schedule adherence of buses in service, triggering changes of buses' destination sign displays at the end of the line (or other set location along a bus route), and triggering pre-recorded announcements for passengers.
    - GPS-based vehicle tracking system to trigger automated stop announcements.
    - This can refer to external announcements (triggered by the opening of the bus's door) at a bus stop.
    - Announcing the vehicle's route number and destination, primarily for the benefit of visually impaired customers, or to internal announcements (to passengers already on board) identifying the next stop, as the bus (or train) approaches a stop, or both.
    - Data collected as a transit vehicle follows its route is often continuously fed into a computer program which compares the vehicle's actual location and time with its schedule, and in turn produces a frequently updating display for the driver, telling him/her how early or late he/she is at any given time, potentially making it easier to adhere more closely to the published schedule.
    - Our systems providing this kind of information assign a unique number to each stop, and waiting passengers can obtain information

by entering the stop number into an our dedicated computer or an application on the transit system's website.

- We provide a virtual map on our website, with icons depicting the current locations of buses in service on each route, for customers' information.

- Consumer Vehicles

  - Vehicle tracking systems are also popular in consumer vehicles as a theft prevention and retrieval device. Police can simply follow the signal emitted by the tracking system and locate the stolen vehicle.

  - When used as a security system, a Vehicle Tracking System may serve as either an addition to or replacement for a traditional Car alarm. Our vehicle tracking systems make it possible to control vehicle remotely, including block doors or engine in case of emergency.

  - Our vehicle tracking systems integrate several security systems, for example by sending an automatic alert to a phone or email if an alarm is triggered or the vehicle is moved without authorization, or when it leaves or enters a geo-fence.

Uses

Fleet Management: When managing a fleet of vehicles, knowing the real-time location of all drivers allows management to meet customer needs more efficiently.

Asset Tracking: Companies needing to track valuable assets or other monitoring purposes can now plot the real-time asset location on a map and closely monitor movement and operating status.

Field Service Management: Companies with a field service workforce for services such as repair or maintenance, must be able to plan field workers' time, schedule subsequent customer visits and be able to operate these departments efficiently. Vehicle tracking allows companies to quickly locate a field engineer and dispatch the closest one to meet a new customer request or provide site arrival information.

Field Sales: Sales professionals can access real-time locations. For example, in unfamiliar areas, they can locate themselves as well as customers and prospects, get driving directions and add nearby last-minute appointments to itineraries. Benefits include increased productivity, reduced driving time and increased time spent with customers and prospects.

Non conventional uses

Industries not traditionally known to use vehicle tracking systems (logistics and transportation industries are the ones that have traditionally incorporated vehicle tracking system into their operations) have started to use it in creative ways to improve their processes or businesses.

The hospitality industry has caught on to this technology to improve customer service. For example, a luxury hotel to install vehicle tracking system in their limousines to ensure they can welcome their VIPs when they reach the hotel.

ATG01 Vehicle tracking systems have also been used in

- **Government Department.**
    - Food supply
    - Water supply
    - Police Department
    - Government Transport Corporations
    - Railway
    - All government Cargo vehicles and more..

- **Private**
    - Private Cargo Vehicles.
    - All type Distribution vehicles.
    - Cars.
    - Tours and Travels Vehicles.
    - Logistics and Transport Vehicles.
    - Vehicles rental companies and even very moving vehicles and more..

ATG01 Product Details

Product Features

1. Tracking via SMS or GPRS (TCP/UDP)

2. Current location report

3. Tracking by time interval

4. Engine Cut

5. Speeding alert

6. SOS panic button

7. Geo-fencing control

8. Low battery alert

9. Alert when ATG01 enters/exits GPS blind area

10. Alert when AT01 is turned on

11. Built-in motion sensor for power saving

12. Position logging capacity up to 260,000+ waypoints

13. Store in GPS blind area &forward when GPRS re-establish

14. Computer based software, replying detailed location names

15. Excellent reporting service on any time anywhere know basis.

15. Wiretapping

Technical Specifications

Hardware

Power Supply	:	+9V-+35V/1.5A
Backup Battery	:	850mAh
Dimension	:	104mm x 62mm x 24mm
Installation	:	104mm x 83mm x 24mm
Weight	:	150g
Operating temperature	:	-20° to 55° C
Humidity	:	5% to 95% Non-condensing
Frequency	:	GSM 900/1800/1900Mhz or GSM 850/900/1800/1900Mhz
GPS Module	:	latest GPS SIRF-Star III chipset
GPS Sensitivity	:	-158Db
GPS Frequency	:	L1, 1575.42 MHz
C/A Code	:	1.023 MHz chip rate
Channels	:	20 channel all-in-view tracking
Position Accuracy	:	10 meters, 2D RMS
Velocity Accuracy	:	0.1 m/s

Time Accuracy	:	1 us synchronized to GPS time
Default datum	:	WGS-84
Reacquisition	:	0.1 sec., average
Hot start	:	1 sec., average
Warm start	:	38 sec., average
Cold start	:	42 sec., average
Altitude Limit	:	18,000 meters (60,000 feet) max.
Velocity Limit	:	515 meters/second (1000 knots) max.
LED	:	2 LED lights to show GPS/GSM working status.
Flash Memory	:	8MB
Interface	:	5 digital inputs, 3 negative and 2 positive triggering; 2 analog inputs;5 outputs.

For further Details please feel free to contact us

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