

Public Safety vehicle and personnel location and tracking devices and software have been around in the industry for several years. Until now, these systems, such as CAD (Computer- Aided Dispatch) are very expensive to purchase and maintain with a target audience of the much larger fire departments and police stations in the larger cities and metro places around the nation. These larger fire departments and police stations are able to afford these expensive systems because of the much larger tax base of which they support. New Edge Technology Solutions' devices and software is a fraction of the cost to purchase, install and maintain and has no recurring monthly cost or fees. Roughly 90% of nations' rural and county public safety departments have no such technology available to them other than voice communications to inform them of the whereabouts of all assets for supporting and protecting their communities.

New Edge Technology Solutions (NETS) provides two products, the VLD1000 and the PLD1000, for those rural and county public safety departments with little or limited budgets available to them, with extreme cost savings in mind.

The VLD1000 is a GPS transponder with either a rugged high-speed UHF or VHF data radio with a built-in 12-channel GPS receiver. The VLD1000 is the heart of our AVL (Automatic Vehicle Location) system. It's internal GPS transponder determines its location and time, and its high-speed radio modem transmits its GPS position and status over-the-air at programmable times. A unique TDMA channel access scheme ensures that even hundreds of vehicles can transmit their location, and not interfere with each-other.

It has up to 5 watts of RF (radio frequency) power output, and operates as both a GPS transponder for tracking, and a radio modem for sending and receiving data. Simply connect DC power, and UHF or VHF antenna, and a GPS antenna, and you are ready to track position and time.

As well as transmitting its position and status over the air, the VLD1000 also has a radio modem with integrated RS232 with RS422/485 and USB interface options for sending and receiving data.

For privacy and security, over-the air encryption is standard on every VLD1000 radio. For network versatility, the VLD1000 incorporates a 16-bit identification code, allowing up to 65,000 objects to be identified on one system. For wide-area coverage, all VLD1000 transponders may be set to store-and-forward messages from other VLD1000 transponders. Although the VLD1000 is the easiest to use modem on the market, and makes the easiest to set-up Automatic Vehicle Locations (AVL) system available, its re-programmability makes it extremely versatile. Most parameters within the modem may be reconfigured to optimize it for specialized operations, extended range, or higher data throughput. The VLD1000 can be configured as a vehicle GPS transponder, repeater/relay, or as the base station receiver.

The VLD1000 transponder may be configured using its built-in serial port. The VLD1000 has a number of different I/O drivers built into it, allowing it to work with a large range of displays, computers, and PC software applications.

Key features of our VLD1000 include:

- Transmissions include ID, position, speed, heading, voltage, temperature, input/output status, UTC time, and proximity
- Able to transmit up to 200 position reports in 10 seconds
- Ultra-fast TX-RX switching and 4-level GFSK modem allows truly "Real Time" tracking and status
- Outputs NMEA 0183 GLL, TLL, WPT, GSV, WPL, RMC, and PRAVE messages
- High-speed over the air data rates. 19200bps in 25kHz channel, 9600bps in 12.5kHz
- Built-in TDMA channel access allowing truly real-time tracking (200 transmission in 10 seconds)
- Very low current draw. As low as 25mA average
- 16 bit addressing for up to 65,525 different unique IDs per channel

For More Information:

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Key features of our VLD1000 include: (continued)

- Programmable proximity alert (1-9999 meters) and programmable position report rate (1-9999 seconds)
- Programmable speed alert, I/O trigger alerts and distance-moved alert
- Configure to also be a store-and-forward repeater. Store and forwarding repeating is when a radio automatically re-sends any message it receives. Locating a store-and-forward repeater on a tall building, tower, or mountain can greatly increase the coverage of a radio system.

Quicker Response - Reduce problems - Save time and increase situational awareness using GPS

Our AVL system helps improve your agency's productivity, officer safety, and your community's security. GPS tracking shows you the "big picture" of how your public safety vehicles are utilized and where your officers and first-responders are located. It speeds dispatching, and automatically identifies where resources are needed. It allows you to see where all vehicles are right now in truly real-time, not a few minutes ago. Updates can be as often as a few seconds.

For the first responders, our systems' exclusive capability of an in-vehicle display of all other vehicle's location will reduce response time, clarify real-time the situations, and provide valuable status information of backup and support personnel.

Our AVL system is one of the only AVL systems on the market that does not require any infrastructure, has no monthly recurring costs, does not rely on cellular networks, and does not need internet access to operate. It is an exceptional choice for public AVL systems, and has many unique features for public safety AVL .

Police and Fire Chiefs can monitor the location of all vehicles to ensure that:

- Response and assistance is dispatched to the correct location.
- They are patrolling the neighborhoods they are supposed to.
- Not entering into keep-out areas.
- Address the concerns of citizens about frequency and duration of patrols.
- Recall location, speed, and direction information for court evidence.
- Coordinate interception in real-time when persuing a fleeing vehicle.

Because our system is a stand-alone UHF or VHF system, there are no wireless carrier fees and no recurring fees. It also keeps working when wireless carriers and cell-phone systems fail.

Our AVL system improves your department by:

- Improving dispatcher's efficiency
- Reducing emergency response time
- Asses tactical situations with more information on available assets
- Identify unsafe driving habits and dozens of other alert conditions
- Quickly search for specific vehicles or nearby vehicles
- Improve safety
- Verify compliance with patrolled area boundaries
- Check for unauthorized vehicle use and reduce fuel costs
- Use the log file to document where officers and have been and have not been
- Provide valuable court evidence of vehicle movements and location
- Assist directing officers in hot pursuit
- Reduce cost by eliminating recurring wireless data fees .

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The PLD1000 is an all-in-one self contained version of the VLD1000, with its' own built-in power source and integrated UHF or VHF and GPS antennas. Designed to be worn by a public safety official while on foot, riding a bicycle or on horseback.

Having the same key features and functions of the VLD1000, the PLD1000 also has some specialized features and functions available:

- Advanced safety features include Automatic "Man-Down", manual alert, critical alert, and proximity alerts are transmitted along with position and status
- Extended battery life includes 24 hour operation with very fast updates, and many weeks of operation with slower update rates
- Secure with All position reports are 128-bit AES encrypted for secure communications
- Critical alerts includes a built-in "Man-Down" sensor along with a manually activated Alert button and a Critical Alert feature allow dispatch and command centers to quickly identify critical situations
- Built-In battery and charger. The PLD1000's large 2200mAh battery operates the unit for days, and the unit may be recharged from any 12V DC power source
- An extremely rugged device that uses a "single-board" construction with GPS, modem, radio, and processor all secured on one circuit board. The light-weight aluminum housing is crush-proof and water-proof
- UHF or VHF radio channels. No public network access is needed. It works even when the cell systems don't with no monthly fees
- Very fast updates. With up to 20 positions reports every second, you can track in truly real-time.

Again, New Edge Technology Solutions (NETS) products, the VLD1000 and PLD1000 and AVL software is priced for those rural and county public safety departments with little or limited budgets available to them, with extreme cost savings in mind.

An example of our pricing is as follows:

For a quantity of 10 VLD1000s	- \$ 570.00 per unit	- as quantities go up, prices go down
AVL Software	- \$ 550.00 per Base Station Location	
UHF or VHF Antenna	- \$ price varies depending on type, size, manufacture, etc	
GPS Antenna	- \$ price varies depending on type, size, manufacture, etc	
Installation charge per unit	- \$ 85.00	

FOOTNOTE: Our entire AVL software system can be placed on a rural / county wide Local Area Network system to be shared by stations as required. Additional equipment required and pricing varies depending on setup requirements.

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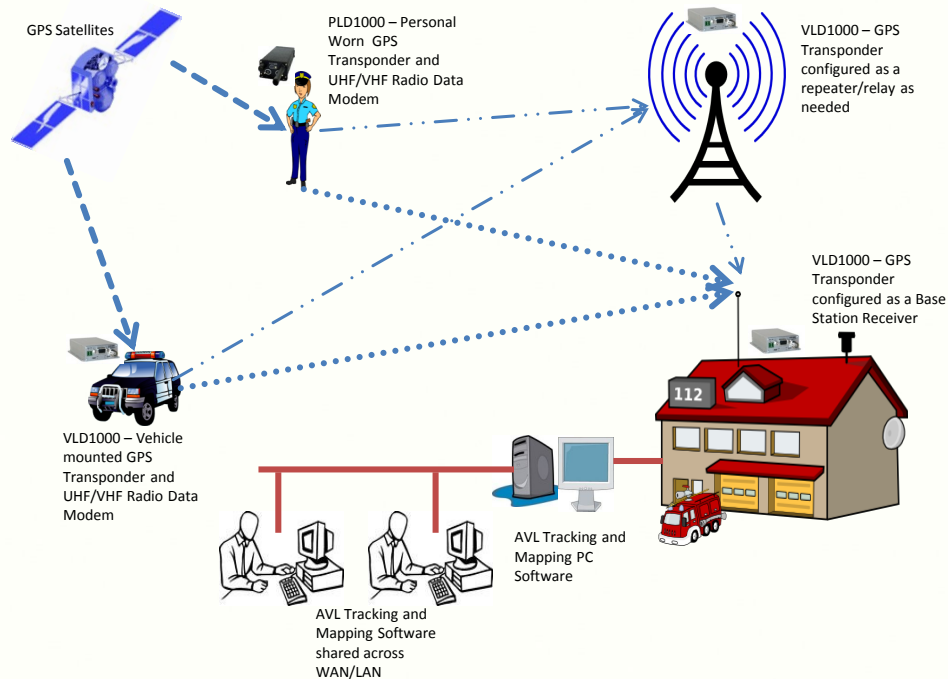
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GPS Tracking – How It Works



1. GPS Satellites transmit and send signals down to earth.
2. The VLD1000 GPS Transponder receives the GPS signal and computes its location.
3. The VLD1000 then transmits the position and any other type programmed data over UHF or VHF radio channels.
4. Another VLD1000 is configured as a Base Station receiver and receives the position/programmed data messages from the radio UHF or VHF radio channel and then it outputs this information using its serial port.
5. If the Base Station receiver can not receive the transmitted data messages from the Vehicle mounted VLD1000 or the Personal worn PLD1000, then another VLD1000 is located on a tower or hill or mountain top and is configured as a "Repeater" and then retransmits the data messages to the Base Station receiver.
6. The outputted position/programmed data messages from the Base Station receiver is then sent to the AVL Tracking and Mapping PC via serial port.
7. One Base Station receiver can manage roughly 100 to 200 tracked units. Up to six (6) Base Station receivers can be configured and connected to one (1) AVL Tracking and Mapping PC with software managed by SQL server.
8. Connected to the serial port of the Base Station receiver(s), a Windows OS based PC running the SQL server managed AVL Tracking and mapping software processes all messages received from all Tracked Vehicles and/or personnel, checks it against pre-set/pre-programmed rules, logs it for historical recall, prints various types of reports as needed and saves it to a SQL database.
9. Via a WAN/LAN, any number of workstations may also see the received position/programmed data messages from any and all Tracked Vehicles and/or personnel, as deemed necessary and authorized by the system administrator.
10. Various types of alarms and alerts can be automatically sent via text messaging to designated cell phones.

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