

Brief: VLR-100 is Vehicle Location Reporter with on-line real time communication link to Mobile Phone/PC/PDA. VLR-100M has in-built Flash memory for Data Logging feature. This indigenously designed unit transmits a vehicle's current location based on Cellsite information via SMS messages at settable intervals. These messages can be used to track the path of the vehicle. Any number of vehicles can be easily tracked when VLR-100 is fitted in each.

Optional PC software for tracking & tracing can be used to provide historical reports on vehicle's plying path. It is a lower cost solution for AVL and on-line Vehicle Tracking systems without the need of maps.

Data Protocol: Standard SMS service from mobile service providers.

Uses: Fleet Management, Logistics Control, Expensive Cargo tracking.



Product Description:

The Vehicle Location Reporter, mounted inside a vehicle, collects the Cellsite name (same as seen on a Mobile Phone's screen) and sends this name via SMS to a preset administrator number, which can be:

- A mobile phone number
- GSM modem connected to a PC
- PDA with phone feature.

It is activated/deactivated using this administrator mobile number via SMS commands.

The unit reports the location via SMS in one of three ways:

1. Location SMS is sent whenever a query SMS is received from Administrator mobile number. This is the power-up **Default mode**
2. The unit goes into **Normal mode** when a particular command SMS is received from the administrator mobile number. It then starts sending location SMS at the specified interval, till a stop command is received.
For example, set the unit to send SMS every 5 minutes
3. The unit goes into **Combined mode** when a particular command SMS is received from the administrator mobile number. It then starts sending location SMS at the specified interval and for the specified duration, after which it stops sending SMS.
For example, set the unit to send SMS every 5 minutes for next 3 hours.

In both the Normal & Combined modes, a SMS will be sent as soon as the Cellsite changes. In VLR-100M, these modes can be operated together with internal data logging.

The number of SMS messages generated from the unit can be controlled by user by putting the unit in **combined mode**. The unit will stop sending SMS after the specified duration is over and will send SMS only when the Cellsite changes.

The SMS command-set to control the unit includes:

- Get current vehicle location
- Set to Normal mode (specify SMS sending interval in minutes)
- Set to Combined mode (specify SMS sending interval in minutes & total duration in hours)
- Stop sending SMS (stops both Normal and Combined modes)
- Register administrator mobile numbers (up to four numbers)
- Set administrator number (anyone from the four registered numbers)
- Start / Stop data storage (available only in VLR-100M)

The unit (model VLR100M) can also store the Cellsite locations in internal memory (practically limitless storage capacity) with date & time stamp. This internal storage can be accessed (downloaded to PC) using Aster VLRS software for generating Vehicle trail reports.

The rooftop mounted antenna is used for acquiring GSM mobile signals. The compact, light weight design of VLR-100 makes it an ideal location tracking equipment.

Note: An activated (postpaid scheme) SIM card has to be put inside VLR-100 by user.

Product Specifications:

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- Compact and sleek design with rugged metallic or ABS plastic chassis
 - Powered by vehicle's battery. DC cable with fuse supplied for connections
 - Based on high performance tri-band GSM chip set
 - Low power consumption: 0.66W (average) @ 12V
 - Roof mountable high sensitivity magnetic antenna

- Optional LED to indicate GSM link status
- Operating Temperature: -20C to +55 deg C
- Dimensions: 120 x 60 x 28mm
- Weight 640g (metallic chassis), 325g (ABS plastic chassis)

Aster VLRS : Location Reporting Software (Optional)

- Operates along with GSM modem connected to PC via RS232 or USB port
- No maps required for location positioning
- Send SMS to control multiple VLR-100 & VLR-100M units at the click of a button
- Stores received location messages in PC's hard disk
- Reports can be generated for any vehicle within a range of dates
- Downloads internal data from VLR-100M unit
- With online tracking & file logging feature

Product Pricing:

Please contact sales@astermicro.com for best pricing.

The standard supply package includes:

- VLR-100 or VLR-100M unit/s
- External hi-gain roof top magnetic mount tri-band GSM antenna for every unit
- Power cable with 2A DC fuse and connector
- (Optional) Aster VLRS Software CD and GSM modem with RS232 or USB cable