









ELECTRONIA

# New Generation Vehicle Counting System



## EL COUNT-VS

-  GSM/GPRS
-  GPRS Class 12
-  Quad-Band
-  ARM Processor core
-  IP 65
-  Solar Powered



### Tracking Challenges

Traffic monitoring in today's world is very important due to spurn of heavy traffic on the roads especially in socially and publicly important places. Counting the number of vehicles entering a city or passing through a high way plays a very important role in Managing and controlling the traffic. Today's traffic management departments are looking for solutions which will provide them required statistical data at the central location and provides relevant reports for managing and controlling the traffic.

Electronia solution ELCOUNT – VS is new generation vehicle counting system design and developed by Electronia, built based on a powerful ARM processor core with quad-band GSM support and 16-channel GPS receiver. A rugged device with low power consumption, designed to work in demanding and harsh environmental conditions, providing vehicle count, type of vehicle (heavy/light) and average speed of the vehicles passing through lane on given road.

You will never have to worry about changing batteries because ELCOUNT-VS rugged unit utilizes a built-in solar power system.

ELCOUNT – VS can be easily mounted on side of road. The SIM card accessibility has been designed to prevent any kind of tampering.

The module integrates a powerful quad band EGSM 900 / 1800 MHz, GSM 850 / 1900 MHz GSM module with a 16 Channel GPS receiver. The GPS unit has a very quick cold start with low power consumption and ideally suited for solar powered devices.

The device has internal flash memory based design, which can store all traffic data with vehicle count per minute, type of vehicle and average speed of the vehicles. ELCOUNT-VS is fully integrated unit encased in a robust enclosure.

The device offers flexibility by over the air programming the system parameters such as grouping of vehicle update interval and location of unit ELCOUNT-VS integrate GSM and GPS features in an absolutely logical manner, and scalable.

The Quad-Band support provided allows vehicles or valuable objects to be tracked using any GSM radio network in the world.



## ELCOUNT-VS Technical Specifications

### 1. General

- Application:** Vehicle Counting
- Loop Controller:** Inductive loop buried on road
- Mode of Communication:** GPRS/SMS
- Features:** Counts the number vehicles  
Heavy/Light  
Average Speed
- Data Logging:** 5000 Logs (grouped per minute/lanes)  
Logs has facility to group to efficiently utilize log space
- Battery backup:** Battery backup for logs storage
- Parameter setting:**
  - Programmable Lanes (Max 8 loop controllers)
  - Various parameters used in algorithm  
Size and speed the
  - Name and location of unit.
  - Date/Time setting.
  - System Parameters stored in EEPROM
  - Over the air programmable GPRS parameters for connectivity to control center
- Packaging:** -Rugged outdoor enclosure rating IP 65 (NEMA 4)

### 2. Communication:

- GSM:** Quad-Band GSM900/1800 MHz,  
**GPRS Data:** Class 12, TCP/UDP

