

## VEHICLE TRACKING UNIT - 87VTU



### Overview

VISIONTEK 87VTU Vehicle Tracking Unit consists of a Quad band GSM/GPRS modem and a Powerful 33-Channel GPS + GLONASS receiver. The basic function of the Vehicle Tracking Unit is to acquire, monitor and transmit the position, Date, Time and status of various IO ports data to server in the form of Packets or SMS. User can also control the external devices connected to the device through remotely (using special OTA Commands).

VISIONTEK 87VTU is provided with USB Port for firmware uploading, Device configuration and to capture the GSM log. Apart from USB Port, Device is also provided with RS-232 Serial port for connecting external peripherals like RFID Reader, Taxi Meter, Dip Model Fuel sensor etc.

VISIONTEK 87VTU is provided with 2 Digital Inputs, 2 Digital Outputs and 2 Analog Inputs(1-Voltage and 1-Current) for detecting, measuring and controlling external devices. Special purpose 3D Motion sensor will reduce the power consumption, detection of vibrations, sleep and wake up mode detection.

Software features like Password protection, Geo-fence, SIM Lock, Sleep Mode, Fall Back SMS, Store and Forward, Track On Demand, OTA Commands and Remote Firmware Uploading makes 87VT a powerful and most robust device for the application areas like Fleet Management, Ambulance Management, Taxi/Cabs, Logistics, Education institutions, Boats, Ships etc.

VISIONTEK 87VTU Comes with an IP65 plastic enclosure and equipped with internal battery, Internal GSM and GPS antennas.

33 Chanel GPS Receiver	GSM / GPRS / SMS	Built in Battery*	3 LED's	Digital IO's	GSM Internal Antennas
RFID, Fuel Sensor Compatibility	RS-232 & USB Port	3D Motion Sensor	Waterproof Enclosure	Analog Inputs	GPS Internal Antennas

### Application Areas

- Fleet Management
- Taxi Dispatch System
- School Bus Management
- Logistics
- Public Transport System
- Delivery & Courier Services
- Security & Emergency Vehicles
- Work force Management



External GPS Antennas



IO Port Cable

## Features :

- RS 232 Port for integrated Fuel Sensor, RFID Readers etc
- Temperature Sensor compatibility.
- Water Proof Enclosure
- 3D Motion Sensor
- Immobilizer
- Tamper Proof
- Geofence
- Password protection for OTA commands
- Firmware up gradation through OTA
- SIM lock, Sender ID Configurable
- TCP/IP, UDP, http, Domain and IPV6 Communication
- Configurable output protocol formats
- Spike and over voltage protection
- Over speed, harsh break/Acceleration alerts
- Internal Battery with > 8 Hours back up.

## Benefits

- Real Time Remote Tracking
- Monitoring and controlling of remote vehicles.
- Diagnosis through OTA Commands
- Low power consumption
- Compact in size
- Reduce the unauthorized usage and stoppage of vehicles
- Control fleet fuel costs.
- Reduce Labor costs
- Increased Productivity
- Easy to install
- Wide range of input voltage
- More safety and security
- 3 Modes of operations : GPRS, SMS & Offline
- More than 60,000 locations data will be stored

VEHICLE TRACKING UNIT - 87VT TECHNICAL SPECIFICATIONS	8701	8703	8704
<b>POWER</b>			
Operating Voltage : 9V-30V DC	✓	✓	✓
Internal Battery : 3.7V, 1100mAh, Li-ion battery	✗	✓	✓
<b>CPU CORE AND MEMORY</b>			
Micro controller : ARM Cortex M3, 32 bit, SRAM 32K, FLASH 256K	✓	✓	✓
External Flash Memory : 4MB / 8MB*	✓	✓	✓
<b>GSM / GPRS COMMUNICATION</b>			
Modem : Quad Band 850/900/1800/1900 MHz	✓	✓	✓
GPRS : Class 10, Class-B	✓	✓	✓
Output Power : Class 4 (2W) @ 850/900 MHz, Class 1 (1W) @ 1800/1900 MHz	✓	✓	✓
SIM Card : 1.8 / 3V	✓	✓	✓
Protocols : TCP / IP, UDP & HTTP	✓	✓	✓
<b>GPS NAVIGATION</b>			
GPS Receiver : 33 Channels GLONASS Receiver	✓	✓	✓
Frequency : L1, 1575.42 MHZ	✓	✓	✓
Horizontal Position Accuracy : <2.5 meters	✓	✓	✓
Hot start : 1 Sec	✓	✓	✓
Warm start : 35 Sec	✓	✓	✓
Cold start : 35 Sec	✓	✓	✓
Protocols : NMEA	✓	✓	✓
<b>FEATURES</b>			
Digital Input : 0 to 30 Volts DC (0 = 0V to 4.5 V & 1 = 5V to 30V)	✗	Two	Four
Digital output : Support Open Collector 100mA	✗	Two	Four
Analog Input - Voltage : Supports 0V to 30V	✗	One	Two
Analog Input - Current : Supports 0 to 20mA	✗	One	Two
LED's : 3 (Power, GSM ,GPS)	✓	✓	✓
RS 232 : Tx, Rx & GND cables	✗	✓	✓
USB Port : USB ( Device) available	✓	✓	✓
1-Wire : Temperature Sensor / i-Button Compatibility	✗	✗	✓
Accelerometer : 3D Accelerometer	✓	✓	✓
Protocol Support : TCP, UDP and HTTP	✓	✓	✓
Geo-fence : Rectangle & Circle	✓	✓	✓
Firmware up gradation : Via GPRS	✓	✓	✓
Reset Switch : Available	✓	✓	✓
Tampering Alert : Device Open & Close alert	✓	✓	✓
GSM Antenna : Internal	✓	✓	✓
GPS Antenna : Internal	✓	✓	✓
<b>MECHANICAL</b>			
Dimensions (mm) : 123 X 76 X 29.8 (L x W x H)	✓	✓	✓
Weight : Product Weight	255gms	335gms	415gms
Enclosure : Plastic	✓	✓	✓
IP Compliance : IP 65	✓	✓	✓

Note: We pursue a policy of continuous research and product development. Specifications and features are subject to change without notice

\* Indicates Optional Feature

