

**DSi**  
mobile



# VT101 BLACK BOX

Internal GPS antenna

Internal GSM antenna

LED Indicators



20-pin I/O header  
- digital outputs  
- digital inputs  
- analog input

## Affordable Option for GPS Fleet Management

This in-dash telematics unit is designed to serve a wide range of operations-improving functions. Key capabilities of the VT101 are asset tracking and reporting on vehicle use based on travel time/distance, GPS location, and direction of travel. Vehicle starts and stops, GPS connectivity status, input state changes, and device battery can also be monitored.

The VT101 takes advantage of the latest GPS technology, successfully integrating functions not previously found in a single processor. By

combining GPS baseband and microprocessor hardware, this design offers greater reliability while also saving space, reducing components, and improving battery life.

### Highlight Features

- Highly integrated subsystems
- Wireless firmware upgrades
- Extensive configuration options
- Quad-band operation
- Space saving unit
- Cost-down design



# VT101

# Technical Specs

## Physical Information

Dimensions: 3"L x 2.5"W x 1"H  
Weight: 3 oz.

## Environment

Operating: -30°C to 70°C  
Storage: -40°C to 85°C  
Humidity: 90% non-condensing

## Special Features

Wireless firmware updates  
Internal antennas

## Application Interface

Host protocols:  
AT Commands  
UDP/API  
TCP/API

## SIM Card/Interface/I/O

Internal 3V SIM  
20-pin I/O header

## GPRS Packet Data

GPRS class 12  
Mobile station class B  
PBCCH support  
Coding schemes CS 1 - 4

## GSM Functionality

GSM SMS: PDU, MO/MT, Cell Broadcast

## GPS/A-GPS Functionality

Autonomous  
"Enhanced" Autonomous  
Tracking up to 14 satellites  
Supported protocols: NMEA  
Time to first fix:  
30 sec cold start  
1 sec hot start  
1 Hz navigation fixes

## Certifications (Pending)

FCC, GCF, PTCRB, Industry Canada, CE Mark and RTTE,  
RoHS Compliant

## Quad Band Operation

850/900/1800/1900 MHz bands

## Output Power

Class 4 (2W) for GSM850/EGSM900  
Class 1 (1 W) for GSM 1800/GSM 1900

*Specifications subject to change without notice*

