



OMEGA 37

Reliable, Premium Grade AVL
(Automated Vehicle Location)

Applications

- Real time vehicle tracking
- Theft prevention
- Insurance benefit
- Security control
- Engine immobilizer
- Public transport system
- Fleet management
- Location tracing
- New Car delivery
- Car rental market
- Dispatching application
- Logistics application
- Map interface
- Navigation system
- Environment control
- Temperature monitoring
- Humidity monitoring
- Many more ...

“Omega 37 is a robust, compact and reliable, cost effective Automated Vehicle Location (AVL) device.

It is designed for demanding Telematic usage including, remote vehicle monitoring, track and trace etc. It communicates via GSM Network and uses Satellite positioning technology”

Features

- ➔ High Sensitivity, high performance GPS Receiver
- ➔ High Performance, field proven GPRS Module
- ➔ Robust Aluminium Silver Anodized casing
- ➔ External GSM & GPS antenna
- ➔ GPRS & SMS Channels
- ➔ Supports UDP and TCP Protocol
- ➔ Remote Real-Time Configuration
- ➔ GPRS Fall Back on SMS Auto Switching
- ➔ Real-Time Tracking
- ➔ Over-Speed Alert
- ➔ GPIO Connection
- ➔ Concealed SIM card
- ➔ NMEA output
- ➔ DC 9 - 32V input



OMEGA 37

SPECIFICATIONS

Model: OM37-01

Description	Specification (MODEL: OM37-01)
1 GPS Parameters (*uBlox LEA4S) <ul style="list-style-type: none"> • Frequency • Sensitivity • Position Engine • Accuracy • Antenna 	L1 Frequency (1575.42 MHz), C/A Code -158dBm (Tracking); -148dBm(acquisition); -142dBm (Cold Start) 16 Channel ANTARIS 4 Position Engine 2.5m CEP, 5m SEP (DGPS / SBAS 2.0m CEP, 3m SEP **) External active antenna >3dBi gain, RHCP
2 GPS Start-up Time <ul style="list-style-type: none"> • Cold start • Warm start • Hot start • Reacquisition 	(High-Sense Mode) 41 seconds 33 seconds < 3.5 seconds < 1 seconds
3 GSM Frequency Bands <ul style="list-style-type: none"> • Standard Band 	Tri-band 900, 1800, 1900 MHz (*Siemens MC55)
4 GSM Transmit Power <ul style="list-style-type: none"> • Class 4 • Class 1 	2 Watt at 900 and 850 MHz 1 Watt at 1800 and 1900 MHz
5 GPRS (General Packet Radio Service) <ul style="list-style-type: none"> • Multi-Slot • Mobile Station • Data Speed 	Class 10 Class B Uplink: 85.6 kbps (max); Downlink: 42.8 kbps (max)
6 SIM Card	3V, Concealed
7 Back up battery	1200mAh (optional)
8 Battery Voltage Monitoring	9 - 32V (battery low alert)
9 Power Consumption <ul style="list-style-type: none"> • Active GPRS/GSM Transmission • GPRS idle, GPS Active • GPRS idle, GPS Off 	150 - 250mA (average) @ 12V < 50mA @ 12V (TBC) < 15mA @ 12V (TBC)
10 Main Interface Connector (12pins) <ul style="list-style-type: none"> • 2 Power Input, PWR, GND • 2 UART TXD and RXD • 3 Inputs (digital) • 2 Outputs (digital) 	9 - 32V DC RS232 Serial Port, for device configuration 9 - 32V DC (ignition, call button etc) Open drain output configuration, inductive driving
11 NMEA output	RS232 level NMEA output (optional)
12 UART interface	AT style commands
13 Device / vehicle ID setting	Up to 16 characters
14 Protocol	UDP or TCP with ACK (option)
15 LED indicators	Power (Red), GPS (Blue) and GPRS (Green)
16 Report interval controlled by ignition status	Yes
17 Operation Temperature (not including battery) <ul style="list-style-type: none"> • Normal operation • Restricted operation 	-20°C to + 55°C -25°C to -20°C and +55°C to +65°C
18 Outer Dimension	84mm x 63.5mm x 30mm (approx.)
19 Weight (excluding accessories, ext antenna)	approx 150g (excluding battery)

* Siemens MC55 and uBlox LEA4S are model name and Trade Mark for the respective manufacturers.

** Depends on accuracy of correction data of DGPS or SBAS service

Warning: Information furnished herein is believed to be accurate and reliable. However, no responsibility is assumed for its use in any scenario. The information contained is subject to change without prior notice.

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