

Technical Specification of VG300

Description: Integrated GPS/CDPD Wireless modem with self-contained GPS receiver and mounted Antenna in a vehicle, gathering status information updates e.g. GPS position, Driver ID, Speed, Time, Direction etc..

Antenna: 1. CDPD Modem

Antenna type : 50 Ohm vertical monopole

Antenna connector : Reverse SMA type

2. GPS

Antenna type : Active Antenna with 5M cable

Antenna connector : TNC Connector

Operation Frequency : TX Band 824.01MHz~848.97MHz

RX Band 869.01MHz~893.97MHz

Data Rate: 19.2 Kbps

Channel Spacing : 30K Hz

DC Power Requirement: 12 V DC Car Battery

Mode of Operation : AVL & Standalone CDPD Modem

CDPD Power Consumption:	Transmit	5-5.5V 800 mA
	Receive	5-5.5V 250 mA
	Sleep Mode	5-5.5V 30 mA

CDPD Compliance: Meets CDPD Wireless Standards Ver 1.0, 1.1

Supported Protocol : UDP/TCP

CDPD Sensitivity: -90 dBm (at 10E-5 BER)

LED Indicators:

- Power
- Remote Control
- Link Status
- DATA Transmit

DATA Receive

Output Power: 0.6 W

Functional Button :

Emergency Button & One additional I/O port

I/O Port: 4 independent I/O switch (the function of each I/O can be configured by AT Command)

Environmental Info:

Operation Temperature : -30 °C ~75 °C

Humidity: 5% ~95%

Vibration Test : Meet JIS D-1601 standard

Vibration Frequency: 33.3Hz

Acceleration: 4.4 g

Direction of Vibration: Z:4 hours, X,Y: 2 hours per each

Shock Test : Meet IEC 60086 Part 2-27 standard

Shock acceleration:100g

Half-sine wave

Pulses duration: 6ms

of shock: 3 shocks per each faces (6 faces)

GPS module:

Message Format: NMEA 0183

Accuracy : Position: 25m , 1-5 m with DGPS

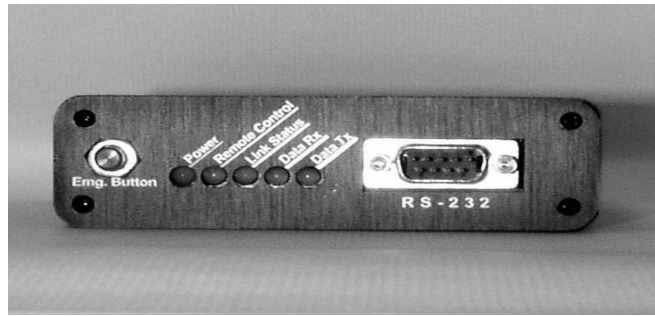
Velocity : 0.1 m/sec 0.05m/sec

Sensitivity : -110 dbm

Acquisition: Cold start < 50 seconds

Warm Start < 40 second

Product Dimension: Compact Size, 13cm x10.5cm x3.45cm



Emg. Button: Emergency Button

Power: Power ON/OFF Indication

Remote Control: Remote Control Status Indication

Link Status: Link Status for CDPD Modem Registration

Data Rx : Receiving DATA Indication

Data Tx : Transmitting DATA Indication



CDPD Ant. : CDPD Modem Antenna Connector

Mode Switch : To switch the operation mode (Left side is **Stand-alone CDPD Modem**, Right side is AVL mode)

Emg. I/O : Two pins I/O connector for emergency control

GPS Ant. : GPS Antenna Connector

DC-12V In : DC 12V Power Connector

