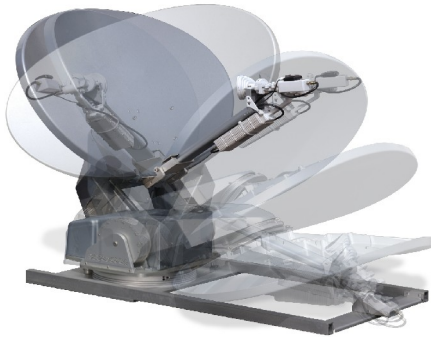


# GCS-500 "Roadrunner" Auto-Acquire Vehicular VSAT System



The GCS-500 Series is an economical full auto-acquire motorized Satellite System that provides a High speed Data & Internet solution. This very compact solution is perfect for mobile IP based applications such as mobile command centers.

Mobile applications can now finally take advantage of high-speed wireless internet connectivity from remote locations. This commercial type broadband satellite communications system has a simple push button satellite acquisition and alignment that only takes minutes before the user is communicating via the two-way high-speed broadband point-to-point or Internet service link.

## **Features:**

- *Simple push button acquire and stow*
- *Lightweight Design can be mounted directly to almost any vehicle, as small as an SUV or mini-van*
- *Motorized antenna automatically finds satellite!*
- *Voice, Video and data communications*
- *Configure for Point-to-Point or Internet communications*

This enterprise system can be designed to be either a Point-to-Point or Internet configuration. It comes in a variety of different symmetrical or asymmetrical bandwidths. We also offer a large variety of cost effective airtime rates that range from full time service to restoral back-up plans that are available to meet just about any requirement.

The modem includes an integral L-Band transceiver. All internal equipment is rack mountable and is typically mounted into a 19" rack.

The L-Band IF signal is amplified by a block up converter (BUC) that is available at power levels from 2W through 20W depending on data rate requirements.

## **Benefits:**

- ***Compact but highly capable commercial mobile Internet or Point-to-Point solution***
- ***Be On-the-Air in ten minutes - automatically finds and aligns to the satellite***
- ***Large variety of Symmetrical and Asymmetrical bandwidths are available with or without a CIR (Committed Information Rate)***

## **Versions Available:**

- Typically for Bandwidths: 64K-T1 uplinks \**
- GCS-512IMS-xW 1.2M IP-SAT Point-to-Point
  - GCS-512IML-xW 1.2M IP-SAT Internet
  - GCS-512iD-xW 1.2M IP-SAT Internet w/ 3DES
- Typically for Bandwidths: 64K-384K uplinks \**
- GCS-596IMS-xW .96M IP-SAT Point-to-Point
  - GCS-596IML-xW .96M IP-SAT Internet
  - GCS-596iD-xW .96M IP-SAT Internet w/ 3DES

\* Link Budget will determine actual dish and PA size

GCS is a full service provider of satellite, wireless and terrestrial communications solutions. We offer complete satellite communications solutions from portable Inmarsat terminals to flyaway, fixed and trailer mounted C, X, Ku-Band or multi-band satellite earth stations, shelters or networks.



# GCS-500 "Roadrunner" Auto-Acquire Vehicular VSAT System

## System Components:

### Reflectors:

.96m and 1.2m round

### Antenna:

3-Axis (Az, El, Pol) Automatic Satellite acquisition with GPS/Compass/Level sensor with pre-loaded library of satellites. The motorized Antenna System comes complete with Feed, Block Up Converter, LNB and IFL cables (TX and RX)

### Rack mountable Equipment includes:

Modem with L-Band IF Output  
100 BaseT Switch  
Router  
UPS

### Weight:

Antenna System: Approx. 100lbs for .96m and 200 lbs for the 1.2m reflector

### Interfaces:

up to 15 Local Area Network Inputs to 100BaseT Switch

## Motorized Antenna Specifications:

### Travel:

Azimuth: 400° +/-200° from Stowed  
Elevation: 0-65° from Stowed  
Polarization: +/-55° or +/-95°

Travel Velocity: 10°/sec Az, 5 degrees/sec El

Satellite Acquisition Mode: Single push button

Temperature: (operational) -20°F to +125°F

Wind Loading, Survival - Stowed  
120-140 MPH

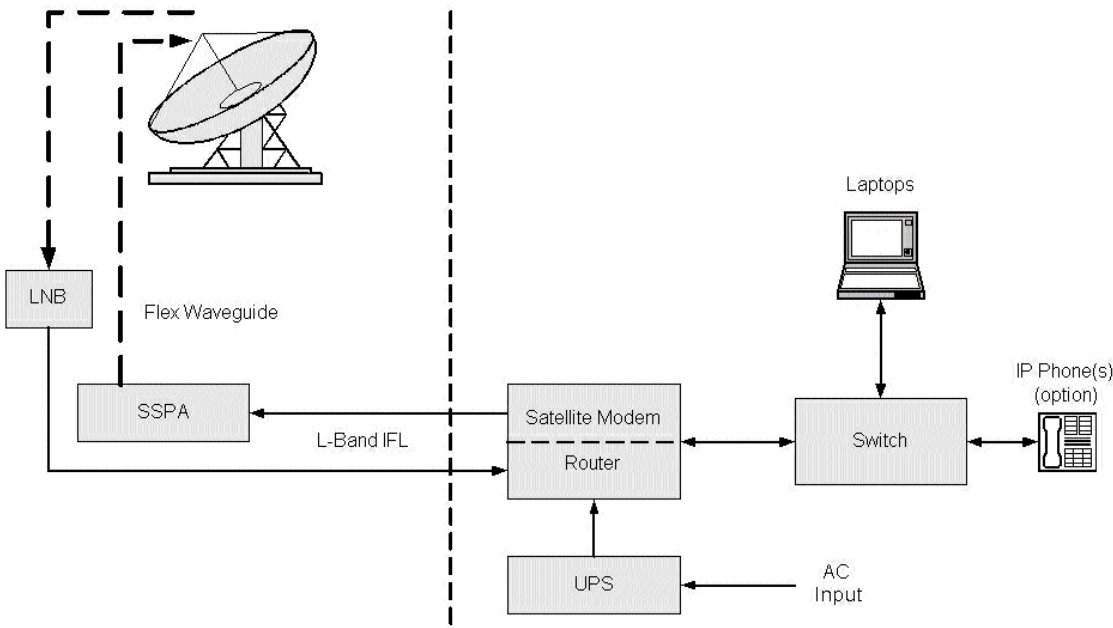
Wind Loading, Deployed  
80 MPH for .96 and 60MPH for 1.2M

## System AC Input:

100-240 VAC, 50/60 Hz,  
(.96m uses 5A, 1.2m uses 9A typical)

## Controller:

Automatic Satellite acquisition with GPS/Compass/Level sensor/pre-loaded library of satellite positions.



## Headquarters:

7640 Omnitech Place • Victor, NY 14564 USA  
Voice: +1.585.924.4840 • Fax: +1.585.924.8332

## Field Offices:

Chicago, Illinois: +1.773.248.8686  
Virginia: +1.757.291.2023  
Web site: [www.globalcoms.com](http://www.globalcoms.com)  
E-mail: [info@globalcoms.com](mailto:info@globalcoms.com)

