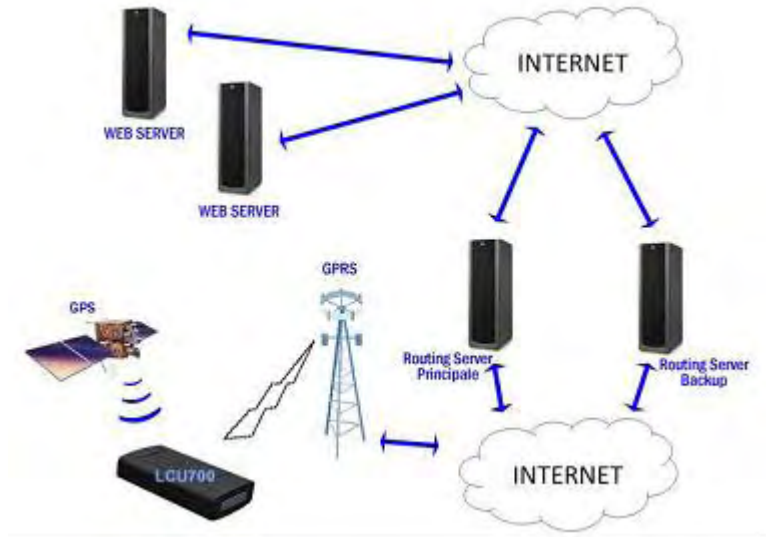




The following figure describes the components of the **GPDSAT** System.



### GPDSAT LCU700 Technical Specifications

The following table describes the technical specifications of the **LCU700**:

Specification	Description	
Supply	Voltage	8V-32V (in one unit)
	Power	1 mA (sleep mode) – 92 mA (transmit)
Temperature	Operational	-40°C to 60°C
	Storage	-40°C to 85°C
Operating humidity	50% – 80%	
Measurement	4.701 x 61 x 21 or 24.5 mm (Motorola), 150 grams	
Cellular modem	GSM	Motorola G24-L, Quad Band (850, 900, 1800, 1900). Built in antenna
Network	Data	GSM, GPRS, and SMS
	Voice	Headset kit available
Messages	SMS	Encrypted protocol
	GPRS	TCP/IP over PPP
CPU capacity	Static RAM	128 Kb
	Nonvolatile memory	34 Kb
	Flash memory	2048 Kb
Alarm system	Immobilizers	External – usage as gradual stop
	Disarming options	Keypad, Dallas key, remote control, transponder
		Remote control with keypad
Backup battery	Type	Varta PoLiFlex, 800-1200 mAh
Com. port	RS232	115,200 bps (default)

# • Key Features

## Fleet

- **Programmable Events:** Events can be defined to both transmit and act on complex events. For example – activating the horn and transmitting when a tanker truck activates its engine while unloading fuel at the fuel depot.
- **Speed restrictions:** Programmable alerts whenever the vehicle goes above/below a pre-defined speed, to detect over hastiness, and unauthorized stops.
- **Mileage:** Ability to alert every specific number of kilometers.
- **Motor is running while stationary:** Alert when the motor is running and the vehicle is left stationary at a specified time range.
- **Perimeter based alerts:** Geo-fencing alerts when a vehicle is entering/leaving/not entering/not leaving a specified a designated area at a specified time.
- **Values Monitoring:** Monitoring of analog inputs to alert when voltage/temperature are exceeding.
- **Driver Identification:** By using different Dallas iButton, Remote Controls, or Keypad Codes, the unit sends the code of the current vehicle driver to the center.
- **Mileage Transmissions:** Periodic mileage transmissions for the needed vehicle's maintenance.
- **Automated Tracking:** Automatic support for vehicle tracking at specified time, without sending additional commands to the vehicle.

## Alarm System

- **Complete Security System:** Complete operational security system with different logic states to detect break-ins and report to the center.
- **Times Programming:** Complete control over the alarm system timing (the intervals at which the unit stays at each of the alarm system logic modes).
- **Towing Detection:** GPS-based detection of movement while the system is armed produces a towing alert to the center.
- **Low Power Warning:** Warning transmission whenever the vehicle's main power goes below a predefined threshold.
- **4 Disarming Devices:** Four disarming devices are available, including keypad, remote control, remote control with keypad on-board, and Dallas iButton.

- **Unauthorized Code Alert:** Alert when unauthorized code has been used by an unauthorized disarming device.
- **Gradual Stop:** Option to gradually stop the vehicle by sending pulses to the immobilizer or fuel pump.

## Vehicle and Driver Protection

- **Emergency Button:** Support for emergency button to invoke an immediate high-priority transmission to the center.
- **Accident and Harsh Braking Detector:** Built-in accelerometer serves as both accident and a harsh braking detector.
- **Auto Lock:** Support for locking/unlocking the doors whenever the motor is starting/stopping.

## Inputs/Outputs

- **8 Digital Inputs:** Five digital inputs, usually used for Ignition, Emergency, Doors, Arming, and Disarming.
- **1 Pulse Counter Input:** To measure odometer pulses, or any sort of pulses generated by external devices.
- **Inputs programming:** Each input can be programmed to be used in order to trigger transmissions under any condition, and to arm or disarm the security system.
- **3 Analog Inputs:** Two analog inputs, each can be set to work in two different measurement scales. Example usages are be with temperature sensors and fuel measurement without the need for external sensor.
- **Main power indication:** A main power measurement to indicate the vehicle's battery voltage.
- **Canbus connection:** Direct connection to the vehicle's computer using the Canbus protocol.
- **Odometer Support:** Support for digital odometer to read its pulses and calculate the vehicle's mileage.
- **4 Digital Outputs:** Usually used for Lock, Unlock, Siren, and Immobilizer.
- **Pulses Width Modification:** Ability to set the width and number of the lock and unlock pulses.

## Communication

- **GSM Quarter Band:** Support for GSM networks, while using both the SMS channel and the GPRS/EDGE channels. Supported bands are 850/900/1800/1900 MHz

