

For more Project details visit:

<http://www.projectsof8051.com/gps-ambulance-tracker/>

Code	Project Title
1821	GPS Ambulance Tracker using SMS technology

Synopsis for GPS Ambulance Tracker using SMS technology

Introduction

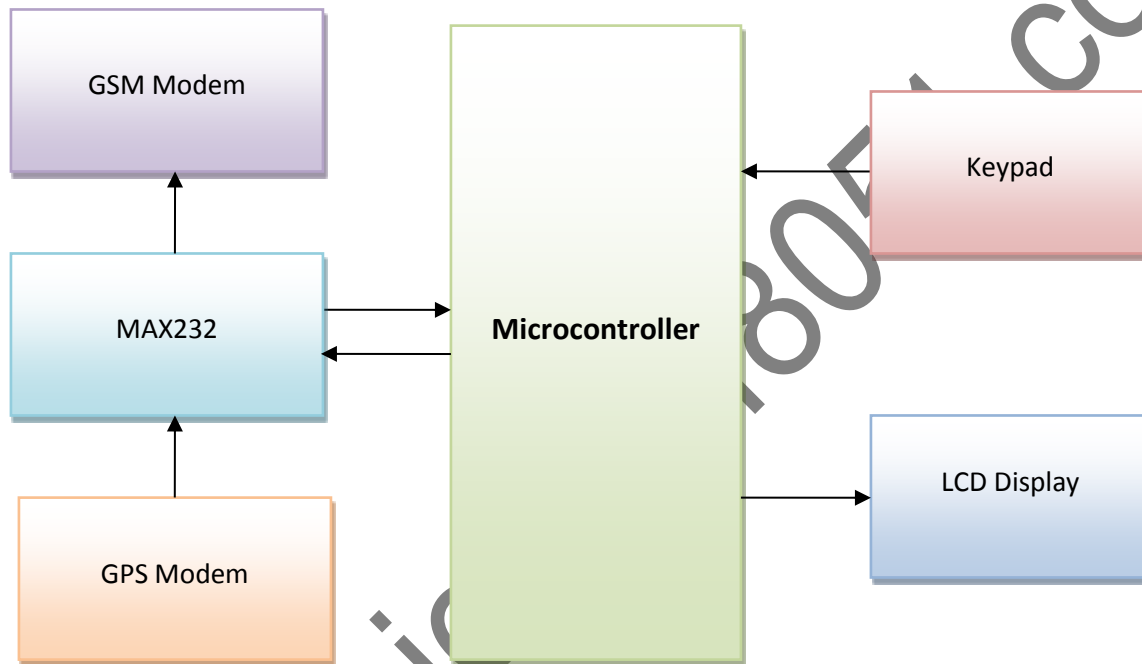
The Ambulance will be outfitted with GPS enabled Tracker devices that will gather the location coordinates from the GPS satellites and send them in real time to the focal server through GPRS enabled SIM. So, the concerned or the authorized people can also communicate with the ambulance driver through PDA and guide him with the driving directions to the nearest hospital.



This GPS device is compact and can be easily connect to ambulance, which allows for the live GPS system to pull power directly from the ambulance battery. Then it transmits driving activity in real-time including speeds drives, routes traveled and more. This entire vehicle monitoring data is sent to an off-site server instantly where it can be viewed by hospital management from their mobile phones or hospital computers. And it can also be programmed to alert hospital management if for some reason an ambulance leaves a safe zone or is driving at excessive rates of

speed when there is no emergency. What is even more helpful for hospital staff is that, through the online tracking platform they can oversee an entire ambulance fleet all at the meantime, and the tracking data can also be stored.

BLOCK DIAGRAM:



Block Diagram Description:

1) Microcontroller: We have used 8051 series microcontroller, AT89s51. 8051 communicates with Keypad, LCD display, GPS modem and GSM modem.

2) LCD display: This is non-mandatory component of the circuit. However it is important part while developing the project.

3) GPS modem: It send out data on serial port. This data contains various information including Longitude and Latitude of the vehicle's current location.

4) GSM Modem: Microcontroller sends AT commands to the GSM modem. Then GSM modem sends SMS.

5) Keypad: It is used to send emergency messages.

ADVANTAGES:

1. Live tracking and status information of all available ambulances in a map which helps for quick redirection of the ambulance to a critical spot
2. Remote Medical Assistance from doctors / medical staff on emergencies

APPLICATIONS:

- 1) The tracking of ambulance as well as to understand the health parameter values of patient.
- 2) To find out the position of ambulance carrying the injured employee to the hospital.

Future development

- 1) We can add more sensors to monitor health parameters.

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