RFID BASED PARCEL TRACING SYSTEM

**ABSTRACT** 

The aim of the project is top track the parcel to find the location where exactly it is at an instance of time, from the time of shipment to the time of delivery, using RFID

and GSM technologies.

Radio Frequency Identification (RFID) Card Readers provide a low-cost solution

to read passive RFID transponder tags up to 2 inches away. The RFID Card Readers can

be used in a wide variety of hobbyist and commercial applications, including access

control, automatic identification, robotics navigation, inventory tracking, payment

systems, and car immobilization. The RFID card reader read the RFID tag in range and

outputs unique identification code of the tag at baud rate of 9600. The data from RFID

reader can be interfaced to be read by microcontroller or PC.

This GSM Modem can accept any GSM network operator SIM card and act just

like a mobile phone with its own unique phone number. Advantage of using this modem

will be that you can use its RS232 port to communicate and develop embedded

applications. Applications like SMS Control, data transfer, remote control and logging

can be developed easily. The modem can either be connected to PC serial port directly or

to any microcontroller.

The parcel will be attached with an RFID tag. This tag contains a unique number.

As the parcel travels many stages of postal nodes in various regions before reaching the

destination, it will read in every region. When ever the card is read, the information of the

parcel is updated with the new location and status, the same information is sent as an

SMS to the user.

In this project 7805 is a regulator and it avoids noise spikes in power supply.

RFID modem is connected microcontroller through serial port. These RFID modem

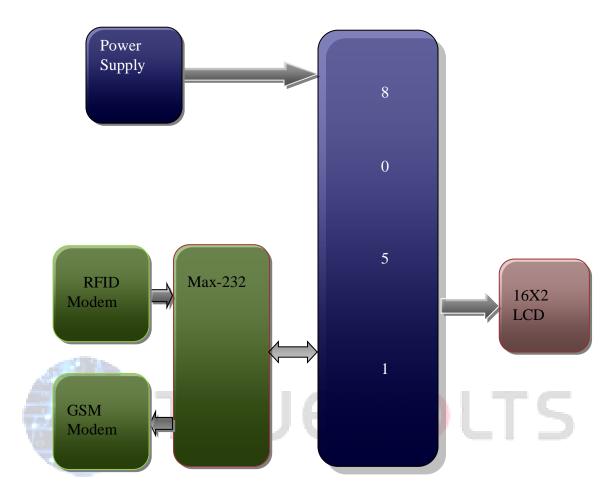
works under 9600 or 4800 baud rates. 16X2 LCD connected to microcontroller through

digital I/O lines.

**APPLICATIONS:** 

Parcel tracking system

## **BLOCK DIAGRAM:**



## POWER SUPPLY BLOCK DIAGRAM



Call: +91 9908665239 email: info@truevolts.com

Website: www.truevolts.com