

# Mechatrofice



Arduino  
Circuits  
Electrical

Electronics

Calculator

Forum

[Home](#) » [Arduino](#) » How to Send GPS Location Via SMS using GSM and Arduino?

ARDUINO

379

## How to Send GPS Location Via SMS using GSM and Arduino?

The main three components in this project are GPS (Global Positioning System) module, GSM Module, and an Arduino Uno. Here we are sending the live coordinates received by the GPS receiver module to a mobile phone via SMS using the GSM module.

### GPS Receiver Module

A GPS receiver module is a device that receives information from GPS satellites and obtains the geographical position of the device.

### GPS Module Arduino Connection

Pin configuration as in the below code and given circuit diagram.

- Arduino
- Electrical
- Electrical wiring
- AC circuits
- Electronics
- Circuits
- Calculator

#### ARDUINO MOST POPULAR

[Arduino tone generator](#)

[Steering control mechanism for RC car using Servo motor and Arduino](#)

[ASK 433Mhz RF Transmitter and Receiver using Arduino](#)

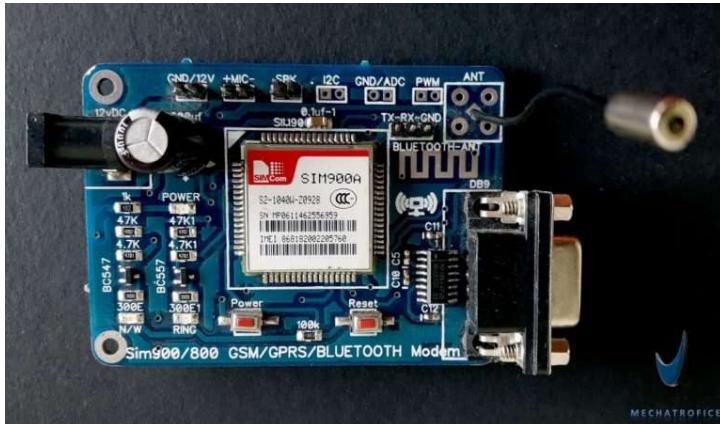
[Arduino voltage controlled oscillator \(VCO\)](#)

[Get PC system time and web API time to Arduino using Processing](#)

CHIPROCCO

Arduino Pin	GPS Module Pin
Tx (Digital Pin 5 )	Rx
Rx (Digital Pin 4)	Tx
GND	GND

## GSM Module



A GSM module is a device used to establish communication over a mobile network. GSM or GPRS Module requires a SIM card to operate or to register a connection with the network operator or service provider.

## GSM module Connection with Arduino

Arduino Pin	GSM Module Pin
-------------	----------------

Hug

Are Yo  
Can A:

Arduino stopwatch with LCD display

Arduino PIN number Lock with Timeout,  
Temporary block

ELECTRICAL MOST POPULAR

How to Wire a Switch Box ? Electrical  
Switch Board ConnectionGodown wiring circuit diagram and  
workingComparison between copper and  
aluminium conductorHow to wire a DB – Distribution Board  
WiringWhy Capacitor Used in Fan or Motor :  
How to Explain

Extension cord wiring diagram

Ceiling Fan and Light wiring circuit  
diagram

CIRCUITS MOST POPULAR

Different Types of Rectifiers

Rectifier viva interview questions with  
answersPower supply failure indicator alarm  
circuit using NE555 IC

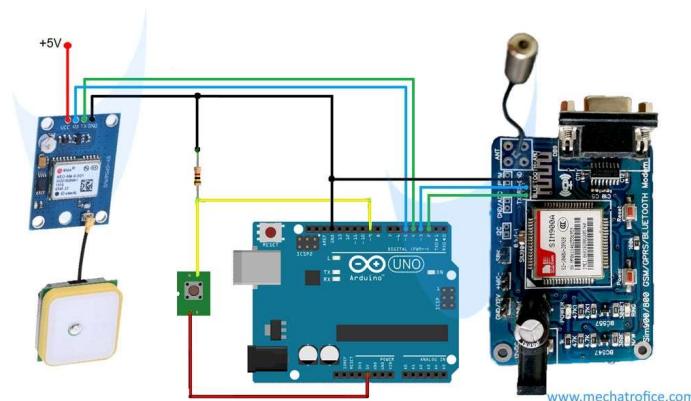
Automatic Light Control Circuits

Infrared burglar alarm using IC 555  
circuit diagramContinuity tester circuit with buzzer  
using 555 timer and 741 IC

Tx (Digital Pin 3)	Rx
Rx (Digital Pin 2)	Tx
GND	GND

Refer the tutorial links given below for detailed working, codes, and interface of the GPS and GSM modules with Arduino.

- [Interfacing sim800 / sim900A GSM module with Arduino.](#)
- [Interface and working of GPS receiver using Arduino.](#)



The GPS receiver obtains the data as a whole NMEA format text. Only the latitude and longitude coordinates are taken from it; using the Arduino TinyGPS library. Then the GSM module sends SMS to the number specified in the code.

This code is useful for GPS and GSM projects like Vehicle Tracker and other Arduino based live location sharing or tracking devices, similar prototypes etc.

The switch input based GPS needs a manual action to operate or send SMS. It is to just send the location by ourselves. By just simple modifications the circuit can be integrated with a wide range of sensors to detect flame, vibration, or similar devices to automatically operate on specific events. Such as, using with a flame detector sensor to automatically send the location of

Resistor calculations | series and parallel circuits

#### QUESTIONS NEED TO BE ANSWERED

##### FORUM

What do the different body colors of the resistors mean?

##### FORUM

How can make Arduino Timer code instead of delay function

##### FORUM

Is it safe to replace 15 amp breakers with 20 amp breakers?

##### FORUM

Can you make a servo go from 0 to 180 then back 180 to 0 every 10 seconds

the fire accident, vehicle accident detection system to send the location of accident vehicle to rescue team, etc...

-28%	-13%	-25%	-24%	-29%
Combo 3 Túi Viên Giặt Tiện Lợi OMO Công Nghệ Anh Quốc (17 Viên/Túi)	Combo 12 Viên Nén Vệ Sinh Lồng Giặt OMO Matic (20gr/viên)	Combo 2 Túi Nước giặt OMO Matic chuyên dụng Cửa Trên 3.6kg/túi	Túi nước giặt OMO Matic 3,6kg	Túi Viên Gi Công Ngh Vi
đ429,000 đ300,000	đ276,000 đ240,000	đ440,000 đ330,000	đ229,000 đ166,000	đ

## Arduino code for sending GPS Longitude and Latitude coordinates on switch press.

```
#include <SoftwareSerial.h>
#include <TinyGPS.h>

int state = 0;
const int pin = 9;
float gpslat, gpslon;

TinyGPS gps;
SoftwareSerial sgps(4, 5);
SoftwareSerial sgsm(2, 3);

void setup()
{
    sgsm.begin(9600);
    sgps.begin(9600);
}

void loop()
{
    sgps.listen();
    while (sgps.available())
    {
        int c = sgps.read();
        if (gps.encode(c))
        {
            gps.f_get_position(&gpslat,
&gpslon);
        }
    }
    if (digitalRead(pin) == HIGH &&
```

```
state == 0) {  
    sgsm.listen();  
    sgsm.print("\r");  
    delay(1000);  
    sgsm.print("AT+CMGF=1\r");  
    delay(1000);  
    /*Replace XXXXXXXXXXXX to 10 digit  
mobile number &  
    ZZ to 2 digit country code*/  
    sgsm.print("AT+CMGS=\"ZZXXXXXXXXXX  
XX\"\r");  
    delay(1000);  
    //The text of the message to be  
sent.  
    sgsm.print("Latitude :");  
    sgsm.println(gpslat, 6);  
    sgsm.print("Longitude:");  
    sgsm.println(gpslon, 6);  
    delay(1000);  
    sgsm.write(0x1A);  
    delay(1000);  
    state = 1;  
}  
if (digitalRead(pin) == LOW) {  
    state = 0;  
}  
delay(100);  
}
```

If we need to track the location of a moving device from a distant place or monitor the position of an object at a regular interval of time it can be obtained by just removing the "if" condition to send SMS, instead just add time delay of few seconds or minutes. Then you can receive the current location of the receiver at fixed intervals.



To receive the SMS in a URL format to open directly on google maps the above message code can be replaced with,

```
sgsm.print("https://www.google.co
m/maps/?q=");
sgsm.print(gpslat, 6);
sgsm.print(",");
sgsm.print(gpslon, 6);
```

The resultant google map website address received as SMS will be, <https://www.google.com/maps/?q=27.988139,86.924974> (GPS coordinate location @ Mt Everest) which takes you directly to the map.

## Arduino code for Sending GPS Location by SMS Request

```
#include <SoftwareSerial.h>
#include <TinyGPS.h>

float gpslat, gpslon;

TinyGPS gps;
SoftwareSerial sgps(4, 5);
SoftwareSerial sgsm(2, 3);

void setup()
{
    sgsm.begin(9600);
    sgps.begin(9600);
}

void loop()
{
    sgps.listen();
    while (sgps.available())
    {
        int c = sgps.read();
        if (gps.encode(c))
        {
            gps.f_get_position(&gpslat,
&gpslon);
        }
    }
    sgsm.listen();
    if (sgsm.available() > 0) {
        String c = sgsm.readString();
        c.trim();
        if (c.indexOf("GET-GPS") >= 0) {
            sgsm.print("\r");
        }
    }
}
```

```
delay(1000);
sgsm.print("AT+CMGF=1\r");
delay(1000);
/*Replace XXXXXXXXXXXX to 10
digit mobile number &
ZZ to 2 digit country code*/
sgsm.print("AT+CMGS=\"+ZZXXXXXX
XXXX\"\r");
delay(1000);
//The text of the message to be
sent.
sgsm.print("Latitude :");
sgsm.println(gpslat, 6);
sgsm.print("Longitude:");
sgsm.println(gpslon, 6);
delay(1000);
sgsm.write(0x1A);
delay(1000);
}
delay(100);
}
```

In the first code, the arduino checks the switch input to send the location. Here we have replaced the condition with a program to check the SMS received and send GPS location if the SMS contains the word "GET-GPS". So by just sending an SMS with the text "GET-GPS" to the GSM module, the GPS location will be sent to the number specified in the code.

**Board Arduino Nano V3.1 LGT8F328P**

**Consumer Electronics Retailer**

**Thang Máy Kalealifts**

Ad Điện Tử Nshop

Ad CHIPROCCO

Ad Thang Máy Kalealifts

Tags: GSM

## YOU MAY ALSO LIKE...



How to send  
receive SMS  
from GSM  
modem using  
arduino

Vibration Sensor  
Arduino Alarm

MARCH 28, 2017

MARCH 18, 2017

---

## 379 RESPONSES

[Comments 379](#) [Pingbacks 0](#)

---



Ganesh Ram ⌂ February 25, 2019 at 8:35 pm

Which mobile sim should i use??

Either 2G or 3G or 4G Sim ??

[Reply](#)





Hey admin,

What if we want to send the location to multiple contacts.

[Reply](#)



admin

⌚ September 15, 2020 at 10:55 am

<https://mechatrofice.com/arduino/send-gps-location-via-sms#comment-12921>

[Reply](#)



JJ POGI ⌚ December 1, 2020 at 10:18 pm

hi admin, how can i send gps location automatically to senders number who perform a gps location request?

[Reply](#)



admin

⌚ December 3, 2020 at 3:02 pm

The whole message text includes the sender number, date, time, message, etc. You can extract the sender number from the second field of the string and then use the number to send SMS.

[Reply](#)



JJ POGI

⌚ December 8, 2020 at 2:54

am

hi admin, can you please type here the example codes for that. thank you



daniel ⌚ May 20, 2022 at 9:50 pm

I'm building this but with a gsm 800I module would I do the same wiring? and how do you know the sim card is connected to the module and is working

[Reply](#)

admin ⌚ May 24, 2022 at 10:17 am

★ By checking the blink of the network LED. It blinks every 3 seconds once the network is

registered.

Refer :

<https://mechatrofice.com/arduino/gsm-send-sms>

[Reply](#)

Daniel

⌚ May 24, 2022 at 5:10 pm

So I have the sim800l all wired up properly it just isn't connecting to the Cellular network with the SIM card I'm using. What type of SIM card are you using? I also wanted to see how I were powering the gsm module in this Circuit the sim 800l needs its own battery pack to I added that and modified the Circuit you're above thought I'm not sure it will still work

Godswill ⌚ May 19, 2022 at 1:45 pm

Pls I'm looking for help, don't know what I have done wrong but the circuit is not sending the location to the number.. The arduino board dosent eve blink TX LED when the trigger button is pressed.

I'm new here.

[Reply](#)

Ganesh Ram ⌚ February 28, 2019 at 10:37 pm

Really thank you so much this code really works, whereas coding from other websites is not helping us and we gained some knowledge through this. We need one more help. we got latitude and longitude in a mobile phone using that how can I plot in a map automatically in a mobile phone.

[Reply](#)

admin ⌚ March 1, 2019 at 10:15 am

- ★ It is described in the project how to receive the SMS in a URL format to plot directly on google

maps. Did you mean something more?

[Reply](#)

Vamsi Ⓜ September 11, 2021 at 6:04 pm  
hey Admin. I will replace the switch with  
433mhz transmitter and receiver section  
is it possible..

[Reply](#)

admin  
★ Ⓜ September 12, 2021 at 8:56 pm  
Yes, you can. It is just an input,  
you can use or replace "if  
condition" with any triggerings  
like sensor thresholds, timer,  
values received via RF modules,  
etc.

[Reply](#)

amal Ⓜ April 10, 2019 at 3:26 pm  
shows like  
2:21: error: TinyGPS.h: No such file or directory  
compilation terminated.  
exit status 1  
TinyGPS.h: No such file or directory

[Reply](#)

admin Ⓜ April 10, 2019 at 6:07 pm  
★ Did you properly installed the TinyGPS  
Library? Follow the link in the article  
about Arduino GPS interfacing.

[Reply](#)

SID  
⌚ November 27, 2019 at 12:34 pm  
WHERE SHOULD I PASTE THE  
EXTRACTED COPY OF TINYGPS  
LIBRARY

[Reply](#)

admin  
★ Ⓜ December 3, 2019 at 8:14 pm  
Extract the zip to your  
library folder in your

Arduino installation. Or  
add the ZIP file to Sketch  
-> Include Library ->  
Add.ZIP Library.

Alila ⌂ October 24, 2019 at 3:01 pm

Download the TIinyGPS Library

<https://github.com/mikalhart/TinyGPS>

[Reply](#)

Obaidullah Khan ⌂ March 6, 2019 at 1:49 am

Hi,

Instead of a switch can we get the GPS Coordinates by sending the sms to the tracker

[Reply](#)

admin ⌂ March 6, 2019 at 9:37 am

- ★ Yes, you can. You need to add a code to check inbox SMS text.

[Reply](#)

Ankita ⌂ April 14, 2019 at 6:15 pm

can u send that code??

[Reply](#)

admin ⌂ April 15, 2019 at 9:10 pm

- ★ You can refer the "Arduino code for Sending GPS Location on SMS Request".

[Reply](#)

Ganesh Ram ⌂ March 12, 2019 at 9:11 pm

Actually we are having ARDUINO MEGA , GPS , GSM MODULE. We tried our best with the following code.

```
SoftwareSerial sgps(4, 5);  
SoftwareSerial sgsm(2, 3);
```

But we can't get output in mobile. So could you please post the exact PINNUMBER which i can use in the code to get output in mobile.

Sir/Madam it is enough if you just edit and post the correct pin number

[Reply](#)

admin ⌂ March 13, 2019 at 7:50 am

- ★ Try using pins,  
SoftwareSerial sgps(10, 11); // RX, TX  
SoftwareSerial sgsm(12, 13); // RX, TX

[Reply](#)

Harika ⌂ March 27, 2019 at 6:31 pm

What is the value of the resistor used for the connection?Plss reply

[Reply](#)

admin ⌂ March 28, 2019 at 7:47 am

- ★ It is a pull-down resistor its value can be around 1k-10K by the rule of thumb. 10k is a common selection.

[Reply](#)

Harika ⌂ March 28, 2019 at 7:32 pm

Okk thankyou..Can we give 5v supply to gps module through arduino 5v pin.

[Reply](#)

admin

★ ⌂ March 29, 2019 at 10:13 am

Yes, it's ok to power GPS from Arduino 5V. But for GSM external supply is required, because it needs some amperes.

[Reply](#)

Harika ⌂ March 29, 2019 at 10:12 pm

Okk thank you so much.. Really helped me a lot.. We got the output in terms of latitude and longitude ... Still need to interface LCD to display messages like sms sent and also latitude and longitude.... Please help how to modify the code for it...

[Reply](#)

admin ⌂ March 30, 2019 at 10:40 am

★ Refer: [Arduino LCD interface](#).

Use the above tutorial. Referencing to that add an additional print line with `Icd.print` like the `sgsm.print`.

[Reply](#)

Ankita ⌂ April 14, 2019 at 6:11 pm

Instead of a switch can we get the GPS Coordinates by sending the sms to the tracker

[Reply](#)

admin ⌂ April 15, 2019 at 9:09 pm

★ yes, you can. Just need to add some code for receive and process the SMS.

[Reply](#)

Nurul Fitriah ⌂ May 11, 2021 at 11:28 pm

hi sir, how i should do that, do you have something that I can refer to? My project

same as yours but I dont wanna use switch. Please help me sir.

[Reply](#)

admin ⌂ May 12, 2021 at 9:48 pm

- ★ Just remove or replace the if condition to check the switch state. Could you explain more about your requirement?

[Reply](#)

Anjali ⌂ April 22, 2019 at 8:47 am

why i am not getting anything on serial monitor and sir i am using gsm sim800l evb,tiny gps and arduino uno today is my project submission will you plzz help as fast as possible..plzz sir

[Reply](#)

admin ⌂ April 22, 2019 at 9:24 am

- ★ If you are referring to the above code in this article, it has no code to display in the Arduino serial monitor. It used only software serial to receive data from the GPS module and Send the data via SMS through GSM.

If you are trying to display the serial data send and receive by these two modules, add "Serial.print" after every sgsm.print the same as it is used,

Refer :

<https://mechatrofice.com/arduino/arduino-serial-monitor-control>

[Reply](#)

Pubudu Ranawaka ⌂ April 30, 2019 at 6:05 pm

dear admin,  
can you tell me how can i do this project with out pressing button?(send location)

thank you

[Reply](#)

admin ⌂ May 1, 2019 at 9:49 am

- ★ Just remove the if condition "if (digitalRead(pin) == HIGH && state == 0)" or replace with some other conditions if you want to add something else. If removed, then the code starts to send

location continuously. You can add extra time delay to send data at fixed intervals.

[Reply](#)

Pubudu Ranawaka ⌂ May 1, 2019 at 5:37 pm

thank you admin for your kind reply.

[Reply](#)

Pubudu Ranawaka ⌂ May 1, 2019 at 5:44 pm

dear admin,

i have get your second code(that send a sms and get location). i have followed your steps, and send as sms to my GSM module as you mention GET-GPS. but didn't get reply. why is that?

thank you.

[Reply](#)

admin ⌂ May 5, 2019 at 8:10 am

- ★ If that's the case you have to debug each stage separately. Check whether the SMS is receiving, "GET-GPS" is available at serial and the module is sending SMS.

You can either use [contact us](#) form or

[admin@electric.mechatrfice.com](mailto:admin@electric.mechatrfice.com)

[Reply](#)

Pubudu Ranawaka

⌚ May 16, 2019 at 8:11 am

thank you admin

[Reply](#)

Paul ⌂ May 7, 2019 at 3:19 am

Which kind of Arduino were you using?

[Reply](#)

admin ⌂ May 7, 2019 at 10:39 am

- ★ Arduino Uno

[Reply](#)

Shinae ⌂ May 27, 2019 at 8:19 pm

I exactly copied your code... But the led of tx doesn't blink and I get nothing when I send an sms to the sim.

I'm using sim 800L , arduino uno and a gps neo6M... I can't figure out where the problem is "knowing that both sim and gps are working perfectly when used

separately"

Please help ...

[Reply](#)

admin ⏲ May 28, 2019 at 8:52 am

- ★ Add serial.print() and check whether up to what stage it is getting values.

[Reply](#)

Ivan ⏲ September 14, 2019 at 4:11 pm

Hi sir! Can you please show us the schematic diagram if we used sim800l and neo 6m instead of sim900? Thank you in advance sir.

[Reply](#)

admin

★ ⏲ September 15, 2019 at 11:00 am

There is no difference in the schematic diagram using a SIM800L instead of SIM900. Both are using same TTL serial communication using pins TX/RX. Connect the same digital pins used for SIM900 with arduino to the corresponding TX, RX, GND of SIM800L.

Refer the above [link](#) – Interfacing sim800 / sim900A GSM module with arduino.

[Reply](#)

faisal ⏲ June 23, 2019 at 2:11 pm

Bro the code from sending location using sms is not working.  
because, the gsm module dont recive any msg.  
what can i do now plzzz help me in this regard.

[Reply](#)

admin ⏲ June 24, 2019 at 9:09 pm

- ★ Try with GSM and Arduino only.

Refer GSM Interface:

<https://mechatrofice.com/arduino/gsm-send-sms>.

[Reply](#)

Aashish Ⓜ July 8, 2019 at 2:06 am

Admin can you send me the external power supply value and connection because gsm not connecting to network it blink every second and after some seconds it stops and then again repeating the process

[Reply](#)

admin Ⓜ July 8, 2019 at 9:49 am

- ★ The module requires a considerable amount of amperes, it may use up to 2A while transmitting the data, so use supply which has an ampere of 1.5-3A.  
If you are using a GSM module with an inbuilt voltage regulator for the input of 12V, then use a 12V DC adapter (to 12V plug) or any 12V supply (to 12V pin). If the module has any 3.3V or 5V input pin then connect a supply of same voltage.

[Reply](#)

Robin Ⓜ July 10, 2019 at 6:20 am

Admin, Does this code work for every sim network??

[Reply](#)

admin Ⓜ July 10, 2019 at 8:28 am

- ★ 2G, 3G, and 4G sims work with the GSM module but the sim should support 2G. Because the module works as 2G.  
It does not work with 4G SIM that works only on LTE and VOLTE.

[Reply](#)

Chawe Ⓜ July 23, 2019 at 3:13 am

Hi, does the code work well with sim800l, Ublox neo 6m gps module and Arduino uno? Or I need to make some modifications somewhere??

[Reply](#)

admin Ⓜ July 23, 2019 at 9:24 am

- ★ Yes, it does. For GSM module no library is using, only AT commands through software serial. And for the GPS we are using a TinyGPS library that is for modules using NMEA standard;neo6m uses NMEA standard. Hence, it would work.  
Also, you can try with a TinyGPS++ library.

[Reply](#)

**jayakrishna** Ⓜ July 30, 2019 at 12:10 am

Can we send the message on regular intervals ?

means, send a location message on every hour / 30 minutes ?

[Reply](#)

**admin** Ⓜ July 30, 2019 at 7:57 am

- ★ Yes, you can. You need to remove the "if" condition and add a time delay. Then the SMS will be sent after every interval.  
You can either use `delay()`, condition with `millis()` or an RTC (real-time clock) to set time duration.

[Reply](#)

**Nek** Ⓜ August 8, 2019 at 6:30 am

Hi the code works the problem is whenever I add the software serial for the GPS the sending message function works but as for the receiving the module cant receive but i tried removing the serial number for gsm edited it with words if i receive GET-GPS i will print a certain word and it works. I wonder why It could send but cant receive. is it about baudrates?

[Reply](#)

**Nek** Ⓜ August 8, 2019 at 6:36 am

"removing the serial number for the GPS i mean".  
Asking about baudrate problems or pin problems?

[Reply](#)

**admin** Ⓜ August 8, 2019 at 3:16 pm

- ★ Baud-Rate can be either 4800 or 9600, depending on your module type. Find the baud rate of your module.  
Some times this type of issue might occur while using multiple modules at a time.

Try changing pins, Refer  
<https://www.arduino.cc/en/Reference/softwareSerial>.

[Reply](#)

**Nek** Ⓜ August 12, 2019 at 6:35 pm

I am using neo 7m is it compatible with the code you

gave or should I buy a Neo 6m  
GPS?

[Reply](#)

admin

★ ⏰ [August 14, 2019 at 9:52](#)

[am](#)

Yes, it is compatible. Neo  
7m supports GPS and  
GLONASS.

Nek ⏰ [August 12, 2019 at 7:05 pm](#)

Here is the code i manually debugged the SendMessage()  
function works while the Receive doesn't.

```
#include #include
float gpslat, gpslon;TinyGPS gps;
SoftwareSerial GPS(5, 6);SoftwareSerial
SIM900A(10,11);
void setup(){
SIM900A.begin(9600);GPS.begin(9600);// Setting the
baud rate of GSM Module
Serial.begin(9600);// Setting the baud rate of Serial
Monitor (Arduino)Serial.begin(9600);
Serial.println ("SIM900A Ready"); delay(100);
Serial.println ("GPS Ready");delay(100);
Serial.println ("Type s to send message or r to receive
message");
}void loop(){
while (GPS.available()){int c = GPS.read();
if (gps.encode(c)) {gps.f_get_position(&gpslat,
&gpslon);}}
if (Serial.available()>0){
switch(Serial.read()){
case 's':SendMessage(); break;
case 'r': RecieveMessage(); break; }
if (SIM900A.available()>0)
Serial.write(SIM900A.read());
}void SendMessage(){
Serial.println ("Sending Message");
SIM900A.println("AT+CMGF=1"); //Sets the GSM Module
in Text Mode
delay(1000);
Serial.println ("Set SMS Number");
SIM900A.println("AT+CMGS=\"+639673894902\"\\r");
//Mobile phone number to send message
```

```

delay(1000);
Serial.println ("Set SMS Content");
SIM900A.println("https://www.google.com/maps/?q=");
// SIM900A.println("latitude");
SIM900A.println(gpslat, 6);
SIM900A.print(",");
//SIM900A.println("longitude");
SIM900A.println(gpslon, 6);
delay(100);
Serial.println ("Finish");
SIM900A.println((char)26); // ASCII code of CTRL+Z
delay(1000);}
void RecieveMessage(){
SIM900A.println("AT+CNMI=2,2,0,0,0"); // AT Command
to receive a live SMS
delay(1000);
Serial.write ("Unread Message done");
}

```

[Reply](#)**admin** ⏺ August 13, 2019 at 7:16 pm

- ★ Did you try the code to send only, is that working? (code in the post to just send), without using the option to send – void SendMessage() and receive – void RecieveMessage().

[Reply](#)**Nek** ⏺ August 12, 2019 at 7:07 pm

I think the softwareserial of the GPS disables my Receiving function. Can I have an advice admin.?

[Reply](#)**admin** ⏺ August 13, 2019 at 7:22 pm

- ★ Are you experiencing the issue with the receive, that is only with GSM SMS receive?

[Reply](#)**RJ** ⏺ August 21, 2019 at 11:43 am

Hi im using arduino Mega 2560 i tried changing baudrates 4800 to 9600 my GPS type is Neo 7m. But what i get for both is all zero GPS(11,10) GSM(12,13)

[Reply](#)**admin** ⏺ August 21, 2019 at 7:28 pm

- ★ Did you tried the GPS alone or used the GPS directly to serial monitor to check whether the

module can receive data in NMEA text.

[Reply](#)

sash Ⓜ September 15, 2019 at 8:19 pm

i am getting lat and long as ZERO in sms.i am using sim800l and neo 6m gps module

[Reply](#)

admin Ⓜ September 16, 2019 at 8:47 pm

- ★ Did you get the right lat and long values on the serial monitor?

[Reply](#)

Sash Ⓜ September 16, 2019 at 10:26 pm

S I got it when gps is interfaced with arduino nano separately...but getting zero in sms when uploading this code ...

[Reply](#)

admin

★ Ⓜ September 17, 2019 at 9:25 pm

Are you sure you are using the same code? Could u share the exact code?

[Reply](#)

gaurav upase Ⓜ March 28, 2020 at 5:40 pm

no could not see anything

[Reply](#)

Matija Ⓜ May 8, 2020 at 4:55 pm

Hi, did you managed to fix it? I am getting the same thing. First, with a button I am getting the correct coordinates. Than I changed to trigger a message with sms, didn't work. I changed the code a little, now I am getting a response, but with lat and long as just 000000. Is there a solution to fix it? Thank you

[Reply](#)

admin

★ Ⓜ May 10, 2020 at 6:12 pm

Maybe it is due to the issue with code. Could

you share the modified code and circuit?

xingmai

⌚ January 12, 2021 at 7:27 pm

I am getting the same error. Did you fix it?

Godswill ⌚ May 19, 2022 at 3:57 pm

Good morning Admin.

Please I need the code that can send message with button pressed and when SMS is sent.

Secondly, why is the Rx LED on Ardiouno Uno not blinking to show it's getting reception from the GPS module when I uploaded the code for button triggered for SMS.

I'm new to this, help me

Thank you..

[Reply](#)

admin ⌚ May 24, 2022 at 10:21 am

★ use the code given under "Arduino code for sending GPS Longitude and Latitude coordinates on switch press". Rx will not blink when the GPS module gives a signal because it is not connected to default serial pins, RX & TX.

[Reply](#)

sasi ⌚ September 19, 2019 at 2:52 pm

Arduino: 1.8.9 (Windows 7), Board: "Arduino/Genuino

Uno"

C:\Users\user\Desktop\sketch\_sep19a\_LAS\sketch\_sep19a\_LAS.ino: In function 'void loop()':  
sketch\_sep19a\_LAS:40:1: error: a function-definition is not allowed here before '{' token  
{^sketch\_sep19a\_LAS:46:1: error: a function-definition is not allowed here before '{' token  
{^sketch\_sep19a\_LAS:77:3: error: expected '}' at end of input

```
} ^  
exit status 1  
a function-definition is not allowed here before '{' token  
  
This report would have more information with  
"Show verbose output during compilation"  
option enabled in File -> Preferences.
```

[Reply](#)

admin ⏺ September 21, 2019 at 1:13 pm  
★ It might be due to syntax error.

[Reply](#)

Nafla ⏺ September 29, 2019 at 2:04 am  
how can i programed with water level sensor for  
example if the water arose to specific percentage  
ex(30cm) then the action is "send the location" to the  
android application.

[Reply](#)

admin ⏺ September 30, 2019 at 8:33 am  
★ You mean to send via GSM or any other means of  
communication?

[Reply](#)

Nafal ⏺ September 30, 2019 at 9:00 am  
GSM or android application  
This is my project idea it solves the  
sinking car+ drowning people.  
How can I give you the details if you can  
help me?

[Reply](#)

admin ⏺ October 3, 2019 at 2:32 pm  
★ The above code can be used for  
the GSM system with some  
modifications. Instead of  
triggering by a switch, use water  
level detection for triggering.  
Refer:  
<https://mechatrofice.com/arduino/automatic-irrigation-system>  
(Just refer to switching once the  
water level reaches threshold).

[Reply](#)

akhona ⏺ October 7, 2019 at 5:06 pm

my email is [akhona.kaizer@gmail.com](mailto:akhona.kaizer@gmail.com) i tried to send you an email but seems like your email is incorrect

[Reply](#)

**admin** ⏺ October 8, 2019 at 9:39 am

- ★ Email address is correct, I received your mail.

[Reply](#)

**AKHONA** ⏺ October 8, 2019 at 7:49 pm

thank you sir I got your response

[Reply](#)

**bhushan** ⏺ October 7, 2019 at 11:51 pm

hey I am using sim800a and neo 6m  
but I am not receiving back  
I have used your code exactly  
plz reply asp

[Reply](#)

**admin** ⏺ October 8, 2019 at 9:45 am

- ★ Did you tried GSM and GPS modules separately with the Arduino and made sure both are working fine.

[Reply](#)

**admin** ⏺ October 8, 2019 at 10:14 am

- ★ Is this a completed code or you are getting an error?

[Reply](#)

**AKHONA** ⏺ October 8, 2019 at 7:48 pm

sorry sir I managed to fix the error, the problem was that I didn't install library function for TinyGPS..thank you sir I really appreciate your time

[Reply](#)

**thakshila** ⏺ January 20, 2020 at 10:29 am

Dear AKHONA,  
can i get full code from you

[Reply](#)

**Akshith** ⏺ October 12, 2019 at 11:30 pm

can u please give the code without using a switch .

[Reply](#)

**admin** ⏺ October 13, 2019 at 9:45 am



Just remove the switch from the circuit and the if condition, as briefed next to the first code.

[Reply](#)

Akshith ⌂ October 13, 2019 at 7:40 pm

I have tried but getting no sms can u please give me the whole code after changing?

[Reply](#)

admin

★ ⌂ October 15, 2019 at 3:46 pm

please, leave your Email address.

[Reply](#)

Neethu

⌚ January 31, 2020 at 6:07

pm

Could you please give me the same full code?

Chay ⌂ July 2, 2022 at 7:44 pm

Please give me full code

[Reply](#)

rahul ⌂ October 27, 2019 at 10:02 pm

hi can you suggest me the best reliable gps module for tracking vehicles in india and also can we attach some sensor's and relay to control the ignition of the vehicle using your code ?

[Reply](#)

admin ⌂ October 30, 2019 at 10:27 pm

★ Neo series GPS modules (Neo 6m, 7m, m8..) are good options.

Yes, you can attach sensors and other control functions, the code and hardware need to modify according to your requirement.

[Reply](#)

Neethu ⌂ November 12, 2019 at 10:44 pm

Sir, I copied your exact code but on uploading to Arduino I am getting an error saying problem uploading to board. What could be the problem??

[Reply](#)

admin

★ ⏰ November 15, 2019 at 8:46 pm

It might due to the connectivity issue between the IDE and Arduino board.

Refer:<https://www.arduino.cc/en/Guide/Troubleshooting#toc1>

[Reply](#)

Neethu

★ ⏰ January 31, 2020 at 6:02

pm

Sir I tried copying this code exactly but I am not getting any SMS on my given number. Also while connecting the GPS and GSM modules to the Arduino as shown, the TX pin of the Arduino is not lighting up. So I connected as RX of gps-arduino pin 0, TX of gps- Arduino pin 1, RX of GSM – Arduino pin 10, TX of gsm-Arduino pin 9. Still not getting any sms. Could you please explain why?

admin

★ ⏰ February 1, 2020 at 5:03

pm

Try, connecting GPS and GSM module as pin number given in tables. GSM – Arduino pin 3 TX, pin 2 RX. GPS – Arduino pin 5 TX, pin 4 RX.

Neethu

★ ⏰ February 2, 2020 at 3:25

pm

Tried connecting as you said but I'm receiving latitude and longitude as

0.00 only. But it's  
displaying correctly in the  
serial monitor

admin

★ ⏱ February 8, 2020 at 9:08

pm

Try the GPS alone –

<https://mechatrofice.com/arduino/gps-latitude-longitude>

Magz ⏱ October 30, 2020 at 3:19 am

Hi m using neo6 and atduino uno  
but not getting any sms or  
anything on the serial monitor

[Reply](#)

bhargav ⏱ November 13, 2019 at 1:57 pm

iam getting????? in serial monitor....  
iam using same code in nano  
while iam checking gps before if condition iam getting  
???? i tried with differet baud rates but not got thegps  
coordinates

[Reply](#)

admin ⏱ November 15, 2019 at 9:08 pm

★ Try the GPS module directly with any serial  
terminals and make sure it is receiving signals.  
And also make sure that the Arduino serial  
communication is working fine.

[Reply](#)

Sanjeev Kumar ⏱ November 21, 2019 at 8:50 pm

Hello Admin,  
Thank you for providing the code. Although code is  
working fine but one problem I am facing is that when  
ever I am clicking on the message it directly linked with  
my phone's Google map and is showing my current  
location instead of message coordinate position. Please  
help

Thank you in advance.

[Reply](#)

admin ⏱ November 26, 2019 at 6:51 pm

★

Just change the default option on your phone.  
And try to open with any browser (or directly copy paste the link to URL bar).

[Reply](#)

**Darshini** Ⓜ [November 23, 2019 at 10:31 pm](#)

Hi, can I use Arduino Nano for this? Or only Uno / Mega are usable?

[Reply](#)

**admin** Ⓜ [November 26, 2019 at 6:47 pm](#)

- ★ No, you can use with any Arduino boards. But, the circuit connections and declared pin numbers, etc need to be modified in respect to the arrangement.

[Reply](#)

**Pranilash** Ⓜ [November 24, 2019 at 10:02 am](#)

Should the sim inserted in the GSM Module should be recharged ?

[Reply](#)

**admin** Ⓜ [November 26, 2019 at 6:44 pm](#)

- ★ It should be an active SIM card to register with the ISP. And need to be charged for SMS and call as per ISP charges.

[Reply](#)

**Ayesha** Ⓜ [November 26, 2019 at 3:06 am](#)

Hiw, i am using GSM 800L module ..is it ok? because i am not getting any massage in my mobile.

[Reply](#)

**admin** Ⓜ [November 26, 2019 at 6:55 pm](#)

- ★ GSM800L module is ok to use with arduino. Try the module directly with any serial monitors and make sure it is working fine.

[Reply](#)

**PRANILASH** Ⓜ [December 9, 2019 at 7:52 pm](#)

Thank You very much Admin.....

Your code really helped me alot.....

[Reply](#)

**david** Ⓜ [December 14, 2019 at 9:48 am](#)

Hi sir, I would like to merge press button and sms request to send gps location when either press button or

receive sms request. How can I merge all from your code above?

Thank you so much

[Reply](#)

**admin** ⏺ December 22, 2019 at 8:10 pm

- ★ you can combine both if condition with an 'or'.  
if ((condition1-switch press) || (condition2-sms  
request)) {  
//send sms  
}

[Reply](#)

**thakshila** ⏺ January 7, 2020 at 9:20 am

how can i get gps location throught A6 gprs gsm  
module.ls that location also get to the mobile through  
SMS.

[Reply](#)

**admin** ⏺ January 8, 2020 at 10:46 pm

- ★ Yes, it works the same.

[Reply](#)

**thakshil** ⏺ January 13, 2020 at 9:06 pm

Thnx.

if we use node mcu,the above code is  
same or not

[Reply](#)

**admin** ⏺ January 15, 2020 at 9:46 am

- ★ Same, but just note about the pin  
numbers.

[Reply](#)

**thakshila**

⌚ January 15, 2020 at 9:30

pm

thank you admin.....

can we use above code to  
send sms from mobile  
and get location back to  
that number. i'll try but it  
doesn't work.please can  
you help me

**Wilter.Flow** ⏺ January 13, 2020 at 11:59 am

Your code gives me latitude and longitude of 0.000000 even though it is outside.

How will it send me the true coordinates of my location?

[Reply](#)

admin ⏺ January 15, 2020 at 9:37 am

- ★ Check whether the GPS module is receiving the values by connecting directly to a serial monitor?

[Reply](#)

John Lloyd ⏺ January 14, 2020 at 1:39 pm

Hello sir! Good Morning! I would like to ask if you have schematic diagram or circuit for the "Arduino code for sending GPS Longitude and Latitude coordinates on switch press." along with its resistor values if it has. Is it possible to ask for it and send it to my email? Thank you very much and I appreciate everything that you have done for this wonderful tutorial!

[Reply](#)

admin ⏺ January 15, 2020 at 9:50 am

- ★ You can use a resistor of value 1K to 10K ohms.

[Reply](#)

Rishi Netha ⏺ January 23, 2020 at 8:20 pm

Hello,  
what is the best way to send a message from Arduino to register mobile and how to receive the message to turn off the particular thing which is attached to the Arduino board?

Can you please email me the process and required things to make this project successful and the mail id is [rishinetha@gmail.com](mailto:rishinetha@gmail.com), thanking you.

[Reply](#)

r.sai sankar rao ⏺ February 1, 2020 at 2:38 pm

sir/madam can i replace the switch with "Ultrasonic Distance Sensor (HC-SR04)" to get the same output ,please respond as soon as possible  
thank you

[Reply](#)

admin ⏺ February 1, 2020 at 4:56 pm

- ★ Yes, you can.

Refer:

<https://mechatrofice.com/arduino/ultrasonic-distance-measurement>

[Reply](#)

R.sai sankar Ⓜ February 1, 2020 at 5:45 pm

Thank you very much sir

[Reply](#)

Skg Ⓜ March 13, 2020 at 9:48 am

Will you please send mi code using ultrasonic sensor . Please respond asap.

[Reply](#)

emily Ⓜ February 10, 2020 at 6:02 am

hi i am trying to use this for an 8th grade science project could you please tell me where to find the gsm module?

[Reply](#)

admin Ⓜ February 10, 2020 at 11:23 am

- ★ Most e-commerce sites, robot kits or hobby electronics shops, etc.

[Reply](#)

K.shiva prasad reddy Ⓜ February 20, 2020 at 1:37 pm

How to given power supply to the circuit and what is the voltage

[Reply](#)

admin Ⓜ February 20, 2020 at 7:28 pm

- ★ You can provide an external power supply because the GSM module requires a considerable amount of power. you can either connect a 12V supply to board 12V connector or 5V to 5V pins.

[Reply](#)

K mahipal reddy Ⓜ February 20, 2020 at 2:55 pm

Sgsm doesn't name type

[Reply](#)

admin Ⓜ February 20, 2020 at 7:33 pm

- ★ It means no definition for that identifier visible to the compiler.  
Did you have "#include SoftwareSerial.h" or properly declared sgsm ?

[Reply](#)

Mahipal Reddy Ⓜ February 20, 2020 at 5:57 pm

Can I use 800L GSM module

[Reply.](#)

admin Ⓜ February 20, 2020 at 7:04 pm

- ★ Yes, you can.

[Reply.](#)

Nataraj Ⓜ February 21, 2020 at 10:49 am

I have received sms to my phone....but it displays latitude  
0.00000 and longitude0.00000

Iam using neo 6m gps

Please reply immedately

[Reply.](#)

admin Ⓜ February 23, 2020 at 10:17 am

- ★ Check GPS separately and make sure you get the values in serial monitor.

[Reply.](#)

Aung myo htet Ⓜ July 22, 2020 at 11:09 am

You always get sms when you click switchbutton

[Reply.](#)

Deepthi Ⓜ January 5, 2021 at 12:26 pm

Do you have any worked out code now. I also received zeroes as latitude and longitude values.  
If you have any code will u plzz share it?

[Reply.](#)

xingmai Ⓜ January 12, 2021 at 7:42 pm

I also got the same problem. When I used first method, it is works well. But, if I used second method, I received zeroes latitude and longitude. (Sorry for my bad English)

[Reply.](#)

Dagim Ⓜ August 24, 2021 at 12:55 pm

Me too bro what can i do?

[Reply.](#)

nithish Ⓜ February 22, 2020 at 10:17 am

i am using aurdino atmega 2560 .in this it consists of 4 tx ins and 4 rx pins so i can give the connections of gsm and gps module tx and rx pins to that instead of using digital pins

[Reply.](#)

**admin** Ⓜ February 23, 2020 at 10:35 am

- ★ Not all pins in Mega 2560 support change interrupts.

Refer link in the comment:

<https://mechatrofice.com/arduino/send-gps-location-via-sms#comment-8041>

[Reply](#)

**K.shiva prasad reddy** Ⓜ February 22, 2020 at 7:48 pm

same code for 800I GSM module and connection are also Same sir and also if I use 800I GSM module there will any problem with module sir

[Reply](#)

**admin** Ⓜ February 23, 2020 at 10:21 am

- ★ No problem, just make sure the input supply to the module and circuit connections are correct.

[Reply](#)

**Prahatheesh** Ⓜ February 26, 2020 at 7:28 pm

I have used your code but I am getting the co-ordinates as zero

[Reply](#)

**admin** Ⓜ February 28, 2020 at 7:27 pm

- ★ Check GPS module separately.

[Reply](#)

**Shiva** Ⓜ February 27, 2020 at 7:42 am

Sir In my gps serial monitor nothing is not coming but position led is blinking for every one second plz help tomorrow is my project submission plz help

[Reply](#)

**admin** Ⓜ February 28, 2020 at 7:35 pm

- ★ Try Gps directly to the serial monitor. Check baud rate, try alternate serial ports.

[Reply](#)

**Priya** Ⓜ February 28, 2020 at 10:41 pm

If I want to use a touch sensor instead of switch, how will the coding be? What changes do I need to do?

[Reply](#)

**admin** Ⓜ March 4, 2020 at 3:25 pm

- ★

If you are using a Digital capacitive sensor touch switch then make no change to the code, just connect the output of the sensor to input pin 9. Because the output of a digital touch switch will be the same as a switch, HIGH state when touching and LOW state during no touch. Or if you are using a piezo or similar component that generates an analog output then you can connect it to an analog pin and check if input reaches greater than a threshold value; if(A0 > thresholdvalue && state==0){...}.

[Reply](#)

**Leonardo Pag-iwayan** Ⓜ [February 29, 2020 at 10:10 pm](#)

Hi admin I've checked gps module separately but it's working but if I will use the code above it returns 0 values when in print to serial monitor.

This is my initianilzation:

```
TinyGPS gps;  
SoftwareSerial sgps(4, 3);  
SoftwareSerial sgsm(7, 8);
```

my email is [Lpagiwayan@gmail.com](mailto:Lpagiwayan@gmail.com)

[Reply](#)

**admin** Ⓜ [March 4, 2020 at 3:37 pm](#)

- ★ Try adding sgps.listen() before sgps.available() and sgsm.listen() before sgsm.available().

[Reply](#)

**Amul Dhungel** Ⓜ [March 8, 2020 at 12:17 pm](#)

Why the vcc of of gsm is not connected to anything and vcc of gps too

[Reply](#)

**admin** Ⓜ [March 8, 2020 at 6:09 pm](#)

- ★ Because both modules are powered with external supplies, either 12V to its connector or +5V to pins. But all boards should have a common GND connection.

[Reply](#)

**Amul Dhungel** Ⓜ [March 8, 2020 at 11:53 pm](#)

ok for now i want to give 5v to both gps and gsm.and resisotr one point is already

connected to 5v pin of aurdino so how  
can i give it 5v to both gsm and gps

[Reply](#)

**danica** ⏲ March 24, 2022 at 2:38 pm

i tried to connect it to the 5v of arduino  
nano both gps and gsm are blinking but  
not sending the location and also im  
using a sim800l. also may i ask if what do  
you mean by external supply ?is it the  
battery? hope to answer we need  
because we will use it for our research  
subject

[Reply](#)

**admin** ⏲ March 28, 2022 at 8:42 pm

★ An external supply can be any DC  
power source, a battery, SMPS,  
etc. It should be able to supply  
enough amount of amperes that  
is required to power the GPS and  
GSM modules.

[Reply](#)

**danica**

⌚ March 28, 2022 at 9:52

pm

Can we use lm2596 and a  
dc adapter and a 9v  
battery for the sim800l  
gsm module or we can we  
can directly use lm2596  
and 9v battery? Can you  
also give us a code sir?

**admin**

★ ⏲ April 2, 2022 at 9:44 pm

If you are using an  
LM2596 DC-DC Buck  
Converter then you can  
use a dc adapter or a 9V  
battery as input to obtain  
a 5V output.

**danica**

⌚ April 3, 2022 at 5:54 am

I use LM2596 DC-DC  
Buck Converter for  
sim800l, i connect the 5v  
of gsm to lm2595 and the  
gnd of gsm also...the gps  
and gsm are both blinking  
but when i press the  
switch it suppose to send  
message but it is not  
sending...i also try the  
gsm and gps if working  
individually and they are  
working individually...i  
hope you can give us a  
code and a circuit diagram  
if i use lm2596 to check



admin

★ ⏲ April 6, 2022 at 2:32 pm

Use the same circuit but  
this time add an LED to  
any of the digital pins and  
insert the code to blink  
the LED inside in the "if"  
condition portion of the  
existing code as shown  
below,

.....  
if (digitalRead(pin) ==  
HIGH && state == 0) {  
digitalWrite(6,HIGH); //  
eg:- Connect LED to pin 6  
delay(1000);  
digitalWrite(6,LOW);  
sgsm.listen();  
sgsm.print("\r");  
.....

Then while operating the  
circuit press and hold the  
push switch till the LED  
blink once.

Also, make sure the input  
source of the buck  
converter is able to

source more than 2  
amperes of current.

Deepa Ⓛ March 9, 2020 at 12:22 am

What do you mean as all boards should have a common Gound, as you answered above?

If there's external supply of V to GSM & GPS, then shouldn't the Ground of GSM & GPS be connected to Ground of the external supply? If not to external supply, why to Arduino's Ground?

[Reply](#)

admin Ⓛ March 9, 2020 at 10:29 am

- ★ The GND of both modules should be connected to the GND of external supply and Arduino. A common GND share GND of all power supplies. For serial communication, the Rx and Tx of both modules are referenced with a logic ground. Hence a common GND with supplies is required to communicate modules that are powered by different sources.

[Reply](#)

Amul Dhungel Ⓛ March 9, 2020 at 11:33 pm

can i connect the above circuit design gps and gsm and button to the same 5v pin slot of aurdino?

[Reply](#)

admin

- ★ Ⓛ March 10, 2020 at 12:37 pm
- Modules draw a considerable amount of power; depending on the module type. Hence, both modules couldn't get sufficient power if connected to arduino 5V pin and also it may damage the Arduino board. So it is better to use an external supply.

[Reply](#)

Deepa Ⓛ March 10, 2020 at 10:07 pm

Both the modules are connected to external 5V supplies right?? not to Arduino's 5V??

[Reply](#)**admin**★ ⏰ [March 11, 2020 at 11:45 am](#)

Yes.

[Reply](#)**Mahipal Reddy** ⏰ [March 9, 2020 at 11:51 pm](#)

I use 800I GSM module for above project but msg not coming and I also test separatrlybot GPS and 800I GSM there working properly but combination is not working properly plz help sir

[Reply](#)**admin** ⏰ [March 10, 2020 at 12:41 pm](#)

★ Try adding sgps.listen() and sgsm.listen() before sgps.available() and sgsm.available() respectively.

[Reply](#)**Sheet** ⏰ [March 11, 2020 at 11:02 pm](#)

Sir, I need code of interfacing of gps neo 6m 0-001 ,gsm900A , 16\*2 lcd display, and ultrasonic sensor. Please help mi .

[Reply](#)**admin** ⏰ [March 13, 2020 at 9:54 am](#)★ <https://mechatrofice.com/arduino/lcd-matrix-interface>  
<https://mechatrofice.com/arduino/ultrasonic-distance-measurement>[Reply](#)**Sam** ⏰ [March 12, 2020 at 3:47 pm](#)

I am working on project railway track crack detection vehicle but I am unable to interface GPS GSM and ultrasonic sensor . In this project ultrasonic sensor detect crack and coordinates of crack sent through message . Please sir help mi I have submittion.

[Reply](#)**admin** ⏰ [March 13, 2020 at 9:54 am](#)★ <https://mechatrofice.com/arduino/ultrasonic-distance-measurement>[Reply](#)**holmes** ⏰ [March 13, 2020 at 4:09 am](#)

can i any one help me modify this code and add vibration sensor setting instead of switch  
vibration sensor module is sw420

[Reply](#)

**Sheet** ⏰ March 14, 2020 at 7:50 am

.Will you please send mi code for this project. Railway track crack detection vehicle in which ultrasonic sensor detect crack by not receiving echo and coordinates of crack are sent to registered number through GPS GSM I am using GSM sim900A, GPS neo 6M 0-001 .

Please sir help mi I have submittion and I am not getting code from anywhere.

[Reply](#)

**admin** ⏰ March 15, 2020 at 10:00 am

- ★ You have to add additional lines for the ultrasonic distance measurement. Refer ultrasonic interface,

<https://mechatrofice.com/arduino/ultrasonic-distance-measurement>; integrate the code with the here code.

Replace the if condition in the code that checks the switch input state, with the ultrasonic output value to check if it is below the normal echo value.

```
if (ultrasonic_distance < normalvalue) {
    sgsm.print("\r");
}
```

[Reply](#)

**Sheet** ⏰ April 4, 2020 at 5:55 pm

Sir, thanks for your response . Code is working but it shows error that "multiple libraries were found ". With this it is generating file with the extension ".elf" instead of hex file . How can I fix it ??

[Reply](#)

**admin** ⏰ April 5, 2020 at 9:53 am

- ★ Check your Arduino library folder if multiple library files are existing; previous versions or similar types.

[Reply](#)

**Saana** ⏰ March 14, 2020 at 11:01 am

Thanks very much. the code work perfectly well for me. I try to print the date and time along side the location but don't know how to. Please I need your help.

Thanks once more

[Reply](#)

**Norasyikin** Ⓜ [March 17, 2020 at 11:44 am](#)

Hello sir, i already try the code that your given, it has no error,,but when i try it did not send the location to my mobile phone..i already try it separately . Sir can you help me..

[Reply](#)

**admin** Ⓜ [March 17, 2020 at 8:12 pm](#)

- ★ Refer: [How to send receive SMS from GSM modem using arduino](#); try the code and make sure it will be able to send SMS.

[Reply](#)

**Benjamin** Ⓜ [March 18, 2020 at 5:36 pm](#)

Hi, will this work if I use a sim800l?

[Reply](#)

**admin** Ⓜ [March 19, 2020 at 9:22 am](#)

- ★ Yes

[Reply](#)

**Peter parker** Ⓜ [March 20, 2020 at 1:07 am](#)

I'm not getting the circuit diagram can any plz elaborate the connection plzzz

[Reply](#)

**Sash** Ⓜ [March 26, 2020 at 10:36 am](#)

What changes should be made to use this code with a Standalone Atmega328p uc.

[Reply](#)

**admin** Ⓜ [March 26, 2020 at 11:38 am](#)

- ★ No change is required, use the same code.

[Reply](#)

**gaurav upase** Ⓜ [March 27, 2020 at 4:07 pm](#)

I am getting lat and long as ZERO in SMS.I am using sim900l and neo 6m GPS module and nothing in serial mountor

[Reply](#)

**gaurav upase** Ⓜ March 27, 2020 at 4:08 pm

and it shows user its own location

Reply

**tarun baghel** Ⓜ April 7, 2020 at 12:41 pm

thank you this circuit is working thank you so much

Reply

**Priya** Ⓜ April 19, 2020 at 10:15 pm

Can you please help me with complete Arduino code that sends GPS location to an Android phone via Bluetooth Hc-42 module?

And is there any specific/suggested app I need to download in order to receive (or store) the code?

Reply

**admin** Ⓜ April 27, 2020 at 3:21 pm

- ★ You can refer to these links,

<https://create.arduino.cc/projecthub/sachendra003/temperature-monitoring-on-smartphone-937345>

<https://www.instructables.com/id/How-to-Read-Arduino-Sensor-Data-on-Android-App-Usi/>

Change the codes so as to replace the serial values from the sensor with the GPS values.

Reply

**HARESHA** Ⓜ May 26, 2020 at 11:11 pm

hello sir, can i send those longitude and latitude to a web server using sim900 GPS/GPRS shield with Arduino

Reply

**admin** Ⓜ June 1, 2020 at 5:53 pm

- ★ Yes with GPRS you can connect to a web server by TCP/IP protocol and send longitude and latitude values.

Reply

**Qq** Ⓜ June 6, 2020 at 3:25 pm

hello, i using arduino mega, gps and gsm module but i cannot get the message in phone

Reply

**Emmanuel Simpson** Ⓜ June 10, 2020 at 6:15 pm

hi sir, your code is running well, but i'm getting 0.00000 values for both latitude and longitude, can i know how to fix it?

[Reply](#)

admin ⌂ June 13, 2020 at 9:10 pm

- ★ Check GPS separately. Make sure the variables have the values of GPS coordinates; try to print the values of the variables in the serial monitor.

[Reply](#)

sanath ⌂ June 26, 2020 at 10:45 pm

how to write land phone caller id facility indicate Arduino programed pls help me

[Reply](#)

Aung myo htet ⌂ July 22, 2020 at 11:04 am

When I click bushbutton. I cannot receive sms always why

[Reply](#)

AungMYO HTET ⌂ July 22, 2020 at 4:52 pm

HI Sir

I want to send SMS with google link but I cannot receive SMS when I try your code2 ,please send me coding for SMS with google link. Thankyou sir And I do not supersede your coding2 in your coding1.

Thank you

[Reply](#)

AungMYO HTET ⌂ July 22, 2020 at 4:55 pm

HI sir

please send me coding fully for SMS with Google map link?

Thank You

[Reply](#)

AungMYO HTET ⌂ July 22, 2020 at 4:57 pm

I can not understand your coding2 with Google map and what if the function is removed in coding 1.

Please explain to me.

[Reply](#)

admin ⌂ July 22, 2020 at 5:59 pm



The code with google map link is nothing but just adding the latitude and longitude coordinates to the URL of the map page, so the link will take you directly to the google maps showing the corresponding location for the latitude and longitude values you just received.

[Reply](#)

**admin** ⏺ July 22, 2020 at 6:01 pm

- ★ The only change in code with a google map link is the lines to print maps URL. Just add the lines for URL under the comment in the code //The text of the message to be sent.

[Reply](#)

**Syed deep** ⏺ July 26, 2020 at 3:33 am

Please help me to sending SMS to multiple recipients ,  
on this program  
How to sending SMS to multiple recipients ar same time

[Reply](#)

**admin** ⏺ July 27, 2020 at 11:59 am

- ★ If you need to add an additional number, just repeat the code between lines  

```
"sgsm.print("AT+CMGF=1\r");" and  
"sgsm.write(0x1A);" with alternate number after  
the line "sgsm.write(0x1A);" in the current code.  
Or if you need to send to multiple numbers, save  
the numbers to an array, number[] =  
{ "AT+CMGS=\\"+ZZXXXXXXXXXX\\r", ... , "AT+CM  
GS=\\"+ZZXXXXXXXXXXYY\\r" }  
then call number[0],number[1] using a for loop  
as sgsm.print(number[i]);.
```

[Reply](#)

**Syed deep** ⏺ July 28, 2020 at 7:50 pm

After press switch , send message but not send location,  
only send 00000000.00000000 , location not send ,  
wait i do sir

[Reply](#)

**Syed deep** ⏺ July 28, 2020 at 7:57 pm

And i check my GPS module, its working in demo code , and gate location in serial monitor, in this program gps not work, only send 000000 in sms,

[Reply.](#)

admin ⌂ July 29, 2020 at 3:24 pm

- ★ You are getting the GPS location in separate GPS code but not in code with GSM, right. Try to print GPS code in serial while using the GSM code and check whether you are getting any GPS values. Can you share the exact code and circuit arrangement you have used?

[Reply.](#)

Aung myo htet ⌂ July 29, 2020 at 4:16 pm

I have not get latitude and longitude with google map.please explaun Sir

[Reply.](#)

admin ⌂ July 30, 2020 at 10:47 am

- ★ Are you getting the values without map url?

[Reply.](#)

yash ⌂ September 27, 2020 at 1:24 pm

yes ,not getting in maps

[Reply.](#)

syed mosharaf hossain ⌂ July 30, 2020 at 6:41 pm

how to make call and send massage on this code for 2 different number , and how to on auto reapply for send a massage in sim 800l and the sim800l also reapply a massage and location

[Reply.](#)

admin ⌂ July 31, 2020 at 2:27 pm

- ★ Refer: <https://mechatrofice.com/arduino/gsm-send-sms>

[Reply.](#)

Aung myo htet ⌂ July 30, 2020 at 9:57 pm

Hi Sir. I have not get gogle map link with latitude and longitude in your second code.What wrong?please explain me .

This is important for my project,please

[Reply.](#)

admin ⌂ July 31, 2020 at 2:23 pm

- ★ Could you share the exact code you are using, current output, the circuit arrangement.

Comment or mail to [admin@mechatrofice.com](mailto:admin@mechatrofice.com)

[Reply](#)

Syed deep ⌂ July 31, 2020 at 9:05 pm

Sir i need some help , in my code , my code is run complete, but i also need some changes, so sir please help me out , i add some extra features in my code

[Reply](#)

Aung myo htet ⌂ August 1, 2020 at 9:30 am

Early day that you send conding me are the same

[Reply](#)

admin ⌂ August 1, 2020 at 11:55 am

- ★ Try changing the pin numbers currently, you are using with alternate pins like,  
SoftwareSerial sgps(10, 11); // RX, TX  
SoftwareSerial sgsm(12, 13); // RX, TX

Try adding sgsm.listen() before sgsm.print("\r");  
and sgps.listen() before sgps.available() .

[Reply](#)

Aung myo htet ⌂ August 2, 2020 at 11:39 am

Ok sir i try

[Reply](#)

syed mosharaf hossain ⌂ August 1, 2020 at 10:27 am

its my code , i press a switch it send a sms, sir plz edit me the code, for make a call , when i press switch , the gsm module make call in this number

```
void SendMessage1(){
digitalWrite(Buzzer,LOW);
mySerial.println("AT+CMGF=1"); delay(1000);
mySerial.println("AT+CMGS=\\"+919635838675\\r");
mySerial.println("PLZ HELP ME: ");
mySerial.print("LAT = ");
mySerial.println(flat,6);
mySerial.print("LON = ");
mySerial.println(flon,6);
```

[Reply](#)

admin ⌂ August 1, 2020 at 11:42 am

- ★ Add the below code just after sms code or if sms is not required replace sms code.  
mySerial.println("ATD+ZZXXXXXXXXXX;");  
//ZZXXXXXXXXXX – number

```
delay(30000);  
mySerial.println("ATH");
```

[Reply](#)

Syed mosharaf hossain

⌚ August 3, 2020 at 7:21 am

Thanks admin

[Reply](#)

Syed mosharaf hossain ⌚ August 4, 2020 at 8:27 am

Sir, the code above GSM and GPS, if you press a switch,  
the location will go. One thing I want to add to that CODE  
is what to do if someone calls GSM and the call is  
automatically received.

[Reply](#)

Aung myo htet ⌚ August 4, 2020 at 8:52 am

I try but do not get any message

[Reply](#)

Raj ⌚ August 12, 2020 at 8:50 pm

Hi admin

Am using neo 6m n sim800l v1 am getting SMS with no  
coordinates: latitude: 0.000000 longitude: 0.000000 plz  
help

[Reply](#)

admin ⌚ August 14, 2020 at 10:29 am

★ Did you check GPS and GSM separately?

[Reply](#)

Hema ⌚ June 1, 2021 at 11:01 pm

Even I'm getting the same and I've checked gps  
and gsm separately . They both are working  
.what might be the problem .Have you resolved it

[Reply](#)

hamza ⌚ September 18, 2020 at 11:49 am

Am using sim900d i need to add for another platform  
how i do

[Reply](#)

Keerthana Sridhar ⌚ September 21, 2020 at 6:23 pm

Hello admin, How to use this data(locations) that we get  
and integrate it with cloud?

I want to store this location in cloud.

[Reply](#)

admin ⏴ September 24, 2020 at 12:49 pm

★ First, you have add an esp8266 wifi module(simple and ) or ethernet shield, GSM/GPRS module to connect the Arduino board with the internet.

Next, you can use any cloud based data logger to store data, like Arduino IoT cloud, and establish the connection.

Refer projects:

[https://create.arduino.cc/projecthub/jaume\\_mir\\_alles/publish-your-arduino-data-to-the-cloud-9dfaa2](https://create.arduino.cc/projecthub/jaume_mir_alles/publish-your-arduino-data-to-the-cloud-9dfaa2)

<https://www.instructables.com/id/Connecting-Arduino-WiFi-to-the-Cloud-Using-ESP8266/>

[Reply](#)

Brian ⏴ September 27, 2020 at 1:11 am

hello sir,i have a problem when it comes to editing the code to add multiple numbers and receiving the coodinates in url format. Kindly help.... Thanks in advance

[Reply](#)

Raphael Ofordum ⏴ September 30, 2020 at 12:13 am

I wanted to ask I am using sim800l and neo 6m. Please I need the code for it. And also I want to ask for power supply recommendations. Please

[Reply](#)

admin ⏴ October 2, 2020 at 3:40 pm

★ You can use the same above code. The operating voltage of the SIM800L chip is 3.4V to 4.4V, you can power it externally or a common method used is connecting a diode in forward bias with the 5V supply. The diodes forward voltage drop reduces the 5V to around 4.3V; check the voltage with a dummy load before connecting to the module. You can power neo 6m with 3.3V or 5VDC of the Arduino.

[Reply](#)

Raphael ofordum

⌚ October 13, 2020 at 7:20 pm

Please have done it but the SMS is not sending. Please my country code is +234.

And the number is about 14 characters.

This is the number +2347036849881.

Please I need the code. Thank you in advance and anticipation

[Reply](#)

admin

★ ⏲ [October 14, 2020 at 9:33 am](#)

Try GSM alone to check whether the SMS is sending, Refer:

<https://mechatrofice.com/arduino/gsm-send-sms>

[Reply](#)

Raphael ofordum

⌚ [October 15, 2020 at 9:01](#)

am

I have tried imtge GSM alone and it worked,

Please help me with the complete code to send gps to SMS. Tried the one up it didn't work

admin

★ ⏲ [October 15, 2020 at 10:20](#)

am

<https://mechatrofice.com/arduino/send-gps-location-via-sms#comment-12954>

sandeep ⏲ [September 30, 2020 at 1:52 am](#)

tnx bro expellant work very help full good joy bast of luck

[Reply](#)

Raphael Ofordum ⏲ [October 16, 2020 at 2:45 am](#)

Thank you for your answers. Please on your last answer I am using Arduino nano. So I am using the connection like I saw in the code to send gps to SMS please I need the complete code to send gps to SMS. Thank you in advance

[Reply](#)

admin ⏲ [October 16, 2020 at 9:41 am](#)

★ You can use the same code in the above post.  
Both nano and Uno are using atmega328, so the

pin numbers are the same and the same code works in both.

[Reply](#)

**HarisLatiff** Ⓜ [October 21, 2020 at 12:10 pm](#)

Hello sir, i am using arduino nano for this project, should i change the pin? and delete the switch code.  
I really need a coding for arduino nano interacting with gsm 900a to ask for gps .  
which pin is connected to the rx tx?

[Reply](#)

**admin** Ⓜ [October 21, 2020 at 10:29 pm](#)

- ★ You can use the same pins as in the circuit. If the switch code is removed then it keeps sending the SMS repeatedly.

[Reply](#)

**morgana** Ⓜ [November 3, 2020 at 9:49 am](#)

hi sir just copy and paste 3 coding from above?

[Reply](#)

**Samir Khan** Ⓜ [November 9, 2020 at 9:37 pm](#)

Sir can I use this program for Live location of my car

[Reply](#)

**admin** Ⓜ [November 10, 2020 at 10:15 am](#)

- ★ Yes, you can arrange to get the live GPS coordinates of the car.

[Reply](#)

**muhd nur** Ⓜ [November 12, 2020 at 1:25 pm](#)

hai, if i want to use arduino mega, is it pin for gps amd gsm still same, if it different, what the coding??

[Reply](#)

**admin** Ⓜ [November 12, 2020 at 9:43 pm](#)

- ★ Refer comments:  
<https://mechatrofice.com/arduino/send-gps-location-via-sms#comment-5845>  
<https://mechatrofice.com/arduino/send-gps-location-via-sms#comment-11509>

[Reply](#)

**M.Rizwan** Ⓜ [November 15, 2020 at 7:09 pm](#)

Sir please help me for final year project we are using sim 800I Neo 6m GPS module with piezo vibration sensor

and the microcontroller is esp 32 and our requirements is to send Sms to numbers and the android application through firebase so how we integrate these modules and how we code these modules please help us sir we have just few days to submit this project sir if you don't mind please send me detail about that through email.

[Reply](#)

Lily Ⓜ December 13, 2020 at 10:47 pm

Admin how to send GPS Location Via telegram using GSM module and nodemcu, GPS module?

[Reply](#)

Dev Ⓜ December 18, 2020 at 1:39 pm

Arduino: 1.8.13 (Windows 10), Board: "Arduino Uno"

Accident\_Detector:2:10: fatal error: TinyGPS.h: No such file or directory

#include

~~~~~

compilation terminated.

exit status 1

TinyGPS.h: No such file or directory

This report would have more information with  
"Show verbose output during compilation"  
option enabled in File -> Preferences.

That is error

[Reply](#)

admin Ⓜ December 19, 2020 at 11:02 am

- ★ Install the TinyGPS.h library. Download and install it <https://github.com/mikalhart/TinyGPS>. Refer :<https://mechatrofice.com/arduino/gps-latitude-longitude>

[Reply](#)

Karthik Ⓜ December 31, 2020 at 7:58 am

Can this program ran to nano? Is working or not

[Reply](#)

admin Ⓜ January 2, 2021 at 11:00 am

- ★ Yes, you can run this code in nano.

[Reply](#)

Bibek Ⓜ January 15, 2021 at 2:13 am

Where is the library

[Reply](#)

admin Ⓜ January 15, 2021 at 11:25 am

★ TinyGPS library:

<https://github.com/mikalhart/TinyGPS>

Refer: GPS interface

<https://mechatrofice.com/arduino/gps-latitude-longitude>

[Reply](#)

xddd Ⓜ January 19, 2021 at 10:50 am

hi sir is it possible to combine the gps and the sim5320e into the same module ?

[Reply](#)

wee kang Ⓜ January 19, 2021 at 10:53 am

hi sir i am currently using a sim5320e and a gps can both this be combined to the same module as we want to minimize space if so what code should be change? do we need to be outdoors for the gps module to work? thx in advance

[Reply](#)

Jeswin Ⓜ January 20, 2021 at 10:07 am

I am not sure whether any modules come with sim5320e and GPS. But a separate GSM 5320e and GPS can be interfaced using arduino.

If you need both GPS and GSM in a single module then go for a SIM808 Bluetooth Compatible GSM/GPRS/GPS Module or similar GSM+GPS modules.

GPS works indoors but it depends, you have to check that with the particular module you have. If you need a compact arrangement modules like GSM+GPS A9G, A7, etc can be used.

[Reply](#)

sultan mirza Ⓜ January 21, 2021 at 12:52 pm

bro i need code for sim808 for gps+gsm

[Reply](#)

admin

★ Ⓜ January 22, 2021 at 10:36 am

Refer:

<https://github.com/blemasle/ard>

uino-sim808Reply

dew Ⓜ January 20, 2021 at 9:05 am

I used a limit switch but it doesn't work. what I need to do

Reply

sultan mirza Ⓜ January 21, 2021 at 12:50 pm

admin can we use this code for nodemcu esp8266 but i was havig sim808(gps+gsm) plz respond

Reply

admin Ⓜ January 22, 2021 at 11:49 am

- ★ Refer: <https://github.com/blemasle/arduino-sim808>

Reply

JJ POGI Ⓜ January 25, 2021 at 1:41 am

Sir, I test seperately both gsm and gps.

gps has value on serial monitor and the led was blinking. And gsm module can send, receive sms and the signal is good. but if i run it together I can't get any reply from the module. I also used a sufficient power supply for gsm module. Also it was perfectly work on switch press. But i was having a problem when it comes to sms request.

What should I do Sir ? Thank you..

Reply

admin Ⓜ January 25, 2021 at 11:19 am

- ★ if that the case, print the string c in the serial monitor which is "String c = sgsm.readString();" and check whether you are properly receiving the SMS and it has a text "GET-GPS".

Reply

JJ POGI Ⓜ January 26, 2021 at 1:09 am

Tried to read string c. but i havent seen any data on serial monitor.

Serial.println(c);

Reply

admin

- ★ Ⓜ January 27, 2021 at 12:05 pm

That means you are not receiving the SMS.

Try adding below two lines after

```
sgsm.listen();  
serial.println("AT+CMGF=1\r");  
serial.println("AT+CMGR=1\r");//
```

Read SMS at location 1.

If the above two line not working  
try this lines instead,

```
serial.println("AT+CMGF=1\r");  
serial.println("AT+CNMI=2,2,0,0,0  
\r");
```

Refer:

<https://mechatrofice.com/arduino/gsm-send-sms> (Receive SMS  
using GSM module) Try with the  
code only for receive SMS.

Reply

**JJ POGI**

⌚ January 27, 2021 at 1:24

pm

Sir i already do that,  
seperately and it can send  
"HELLO WORLD" like in  
the example, and i receive  
messages. by the way sir I  
use sim800L

**JJ POGI**

⌚ January 27, 2021 at 3:36

pm

sir after i add this code  
begore sgsm.listen()  
serial.println("AT+CMGF=  
1\r");  
serial.println("AT+CMGR=  
1\r");

it is now sending gps  
location, but my problem  
now is it has no value  
lat. 00000000 long  
0000000000  
my gps is working and the  
led is blinking. If i test it  
separate it has value in  
serial monitor.

JJ POGI

⌚ January 27, 2021 at 7:49

pm

I also try to change the connection. instead of software serial. I use the Rx-Tx connection of arduino to Gsm module. and it sends me the gps location with value. but the problem is it sends me gps location every 30secs without texting "GET-GPS

JJ POGI ⌚ January 26, 2021 at 10:54 pm

Sir I really need your help. i am working with it for the past 3 days. but still cant figure out where is the problem.

[Reply](#)

admin

★ ⌚ January 28, 2021 at 9:53 pm

Use the same code used in the article to send SMS on request. But this time remove the GPS code completely and send some text.  
Just to check that whenever you send "GET-GPS" the circuit can send any SMS.

[Reply](#)

Shasha ⌚ February 6, 2021 at 4:36 pm

Hi sir, i also got 0 coordinates and on the serial monitor it also shows 0 but the gps module is blinking just fine. I tested it separately and the gps gives coordinates on the serial monitor but when combined with gsm the coordinates just come up as 0. Any advice you can give to help me sir?

[Reply](#)

admin ⌚ February 6, 2021 at 9:39 pm

★ You have to troubleshoot by changing RX/TX pins, checking the power supply source –

whether it can deliver power for both modules at a time, disabling separate parts of the code, etc.

[Reply](#)

**Shasha** ⌂ February 10, 2021 at 8:43 am

I finally got it. Thank you so much sir!

[Reply](#)

**Jan Piere** ⌂ April 25, 2021 at 6:12 pm

Hi Shash how do you fix it? Can you share it with i have the same problem. Can you share the code and schematic. Thanks

[Reply](#)

**Sharon hazan** ⌂ February 20, 2021 at 10:25 pm

what modules did you use fo the SMS/GPS?

[Reply](#)

**admin** ⌂ February 22, 2021 at 12:03 pm

- ★ SIM900A GSM module & SIM28M GPS module(or NEO-6M).

[Reply](#)

**sofie** ⌂ February 26, 2021 at 11:36 pm

hi sir, i have this project that requires arduino nano, gps, gsm, pulse sensor 433 MHZ RF Transmitter and Receiver and Battery. the system should make a buzzer sound once the button is pressed on and then send current location and current pulse rate to the registered number. the system is divided into two parts, the transmitter part: 433 MHz RF transmitter and SOS button, when button is pressed a buzzer sound will be generated in the receiver part which consist of 433 MHz RF receiver, arduino nano, gps, gsm and pulse sensor. the data will be sent from transmitter part to receiver wirelessly and allow to send current location and current pulse rate to the registered number. can you help me with the code or how to connect the circuit. thank you

[Reply](#)

**admin** ⌂ March 1, 2021 at 10:58 am

- ★ Refer to the code:

<https://mechatrofice.com/arduino/rf-remote-controller-using-arduino-and-sim-module>;

Modify the code in this article by removing the

part of data to "off", so when the switch is pressed it sends a switch ON message. At the receiver part, under the action of switch ON use the above code in this article to get the GPS data and send it via GSM. Along with latitude and longitude, you can add `sgsm.print("Pulse")` or the data of pulse rate.

[Reply](#)

**sofie** Ⓜ [March 1, 2021 at 5:28 pm](#)

thank you so much, but what do you mean by removing the part of data to "off" ?. Do you mean to remove the `switch_off` in the code ?

[Reply](#)

**admin** Ⓜ [March 2, 2021 at 9:51 am](#)

- ★ Yes, because you only need to repeat a single action.

[Reply](#)

**sofie**

⌚ [March 2, 2021 at 11:03 am](#)

so for the Transmitter code should be like this right:

```
#include
#include

const int switch_on = 2;
int state = 0;
char *msg;
RH_ASK driver;

void setup()
{
  driver.init();
  pinMode(switch_on,
  INPUT);
}

void loop()
{
  if (digitalRead(switch_on)
  == HIGH) {
    msg = "Switch_ON";
}
```

```

state = 1;
}
else if (state == 1) {
driver.send((uint8_t
*)msg, strlen(msg));
driver.waitPacketSent();
delay(200);
state = 0;
}
}

```

admin

★ ⏲ March 3, 2021 at 10:34  
am

Yes, but as switch off is  
not required, inside the  
void loop below code is  
enough,

```

if (digitalRead(switch_on)
== HIGH) {
msg = "Switch_ON";
driver.send((uint8_t
*)msg, strlen(msg));
driver.waitPacketSent();
delay(200);
}

```

sofie ⏲ March 3, 2021 at 11:00 pm

do I need to use two Arduino. One with  
the transmitter part and the other one  
with the receiver part, or do I just use  
only one Arduino Nano in the receiver  
part ?

because as the link you told me to refer  
to, it uses two Arduino. but the project I  
am working on only requires one Arduino  
in the receiver part . do you think I should  
add an Arduino in the transmitter part or  
not. I'm not sure, can you advise me I  
would appreciate it.

[Reply](#)

admin ⏲ March 5, 2021 at 9:17 am

★ Yes, you need two Arduinos as  
per the given method. Because

the transmitter and receiver need an Arduino to run the TX and RX sketch as it is using an ASK library. If need to do without Arduino then you can use the ASK itself without a library but the chance of error is high. Or you can use another module or a single channel RF remote.

[Reply](#)

**Emerson Mina** ⏺ [March 4, 2021 at 10:43 am](#)

Hello, im using an SIM800L it is the same code for the SIM900?

[Reply](#)

**admin** ⏺ [March 5, 2021 at 9:24 am](#)

- ★ Yes, it could work with this code, if you have any specific module look for the AT commands.  
Because the Arduino is communicating with the GSM modules by just using the AT commands.

[Reply](#)

**Stephen** ⏺ [March 4, 2021 at 10:28 am](#)

awesome, thanks.

[Reply](#)

**Nephian** ⏺ [March 12, 2021 at 7:13 pm](#)

Do i need to remove the button to make the sms request function work ?

[Reply](#)

**admin** ⏺ [March 13, 2021 at 9:44 am](#)

- ★ The code for SMS requests has nothing to read about the button input so it is not required and it has no effect on that circuit or code. But even if you leave with the button input as in the circuit it has no issue with working.

[Reply](#)

**Nephian** ⏺ [March 26, 2021 at 3:11 pm](#)

The Button Circuit and Code is perfectly working but if i try the sms receive code i

don't even get an sms

[Reply](#)

admin ⌂ March 26, 2021 at 9:09 pm

- ★ Separately check the code to receive the SMS and make sure you are receiving the text "GET-GPS"; use the serial monitor to print the string.

[Reply](#)

Fareed ⌂ April 10, 2021 at 3:17 pm

Sir how to use above code with haversine formula

[Reply](#)

admin ⌂ April 12, 2021 at 10:20 am

- ★ Refer:  
<https://community.esri.com/t5/coordinate-reference-systems/distance-on-a-sphere-the-haversine-formula/ba-p/902128>

[Reply](#)

Jan Piere ⌂ April 25, 2021 at 6:15 pm

Hi Sir, both gps and sim80p modules are working. But can't either received proper coordinates. How can I fix this. I tried everything. Thank's

[Reply](#)

admin ⌂ April 25, 2021 at 9:21 pm

- ★ Can't receive proper coordinates mean garbage values, wrong values, or coordinates that are not accurate?

[Reply](#)

Jan Piere

⌚ April 26, 2021 at 7:01 pm

I'm using sim800l ive tried to use your code but it doesn't work. How can I fix this. Can you send me a working code.

[mindermannjanpiere@mail.com](mailto:mindermannjanpiere@mail.com) thanks

Hema Ⓜ May 2, 2021 at 2:25 pm

Hi. We have uploaded the code . There were no errors but we are not getting any output .where is the mistake .Admin please help me .

[Reply](#)

xenia Ⓜ May 17, 2021 at 9:59 pm

Hi! I'm doing a project in which I want to connect a GPS locator to my phone, or build a device with an Arduino nano that remotely sends a signal from my location to a second device every time the button on device 2 is pressed. The second device It will be connected to an LCD screen and instead of reproducing the data of my location, that makes the conversion for example to: The subject is X meters from here (example that makes the calculation of how much is device 1 from device 2 and appears on the screen when you press the button). Its viable? What kind of software / tools would I have to use to create this connection remotely? Can the data be transformed so that it does the calculation that I have commented in the example? Thanks,

[Reply](#)

admin Ⓜ May 28, 2021 at 10:42 am

★ A simple method you can use is an RF module to send data, Refer:

<https://mechatrofice.com/arduino/send-values-wirelessly-using-rf-module>

Also, the distance can be calculated without any special tools/software by using simple formulas to calculate the shortest distance between two coordinates. But overall accuracy in this type of project will be poor, so it needs to be tested and calibrated.

[Reply](#)

tharun Ⓜ May 31, 2021 at 3:04 pm

Hii admin, I'm doing a project on tracking the live location of passenger if an accident occurs ..  
how can I implement in coding side and what components should i used ??  
please reply

[Reply](#)

Ashfaq Ⓜ June 1, 2021 at 12:01 pm

After press switch , send message but not send location, only send 00000000.00000000 , location not send , wait i do sir and i aslo check my GPS module, its working in demo code , and gate location in serial monitor, in this program gps not work, only send 000000 in sms.

[Reply](#)

Hema ⏺ June 1, 2021 at 11:07 pm

Hi admin .I'm getting location but only 00.000000 is coming .Both gps and gsm are working fine individually .what should I do now

[Reply](#)

Tushar ⏺ June 3, 2021 at 11:17 am

Hi Admin,

I'm making a project to make a autonomous RC plane. So far the plan is to include GSM/GPS module to my arduino with gyroscope/accelerometer sensor. Will be sending/receiving data to the arduino through GSM module to have a monitor over the flight behavior. Also will I be able manually override the plane i.e to control the wing movements of the plane thru by sending data to gsm module->arduino->actuators, what will be the delay impact?

I will give a flight path coordinates and would be expecting the plane to follow the path using PID control. If you have any suggestions please let me know. Really excited to do this.

[Reply](#)

★ admin ⏺ June 8, 2021 at 9:20 pm

Sending data, you mean to use the GPRS of the GSM module? An RF control might be the better option.

Yes, the RC can obtain the direction from the flight path coordinates and navigate with the help of a compass module.

[Reply](#)

Tushar ⏺ June 15, 2021 at 4:05 pm

Hi Admin,

The plan is to control the plane using my phone through Blynk app. I think it would be better to use a NEO6M GPS module, with an esp32 wifi module. I not yet sure

about the range of the WiFi module, but this is what I've improved with my idea so far. Please help me with more suggestions.

Thank you!

Tushar

[Reply](#)

admin ⏲ June 17, 2021 at 9:54 am

★ I don't think wifi is a good option for your application since it is an RC plane. Better go for RF modules with enough range like modules of Lora, XBee, NRF with antenna, etc.

[Reply](#)

Tushar

⌚ June 21, 2021 at 9:31 pm

ok sir, thank you so much!!  
also will I be able to interface the above modules like LoRa , NRF with my android phone in anyway ?

admin

★ ⏲ June 25, 2021 at 7:21 pm  
Yes, you will be able to interface similar modules with an android phone via a microcontroller connected through Bluetooth or wifi. But the performance and functional quality is hard to predict, it can be found only by testing the circuit as a whole.

Shiragane ⏲ June 4, 2021 at 1:53 pm

Hi Admin, the code only works when I disable one of the module in the code seems I can't use them simultaneously

[Reply.](#)

admin ⌂ June 8, 2021 at 9:14 pm

- ★ Did you check the external power supply, that it has enough power to work with both modules simultaneously?

[Reply.](#)

mazuu ⌂ July 5, 2021 at 2:15 pm

Hi admin, i'm doing the project that have to send coordinates to a desktop system using GSM SIM800C, NEO 6M GPS MODULE and ATMEGA328, how can i make it,,, your help pls because i have tried different ways but the gps didn't light up

[Reply.](#)

admin ⌂ July 9, 2021 at 8:25 pm

- ★ If the GPS is not lighting up then it might due to poor signal, try it outdoor and try changing the position of the antenna.
- To send coordinates to a desktop system you can receive the SMS to an Arduino circuit connected with a GSM module, then the data can be read via the serial monitor, wifi, Bluetooth, or internet (if the GPS device has GPRS connectivity then the coordinates can be directly shared to the desktop via the internet without sending SMS).

[Reply.](#)

Khizar ⌂ July 12, 2021 at 6:32 pm

Hi admin. Please tell me name of gps module and controller name

[Reply.](#)

Shraddha Singh ⌂ July 20, 2021 at 12:57 pm

hey admin, can you please look at my code once, individually components are working but when I'm using them all together then no response. Here I'm using two ultrasonic sensor, rain sensor, buzzer, neo 6m, sim900a, switch button and arduino uno.  
Is arduino sufficient to power all components or I need to give external supply to some components. Thank you.

```
#include  
#include  
SoftwareSerial gpsSerial(9,10);
```



```
SoftwareSerial gsmSerial(7, 8);  
TinyGPS gps;  
  
int buttonPin = 11;  
const int buzzPin = 6, rain = A4;  
const int echoPin1 = 2, trigPin1 = 3;  
const int echoPin2 = 4, trigPin2 = 5;
```

[Reply](#)

admin ⌂ July 26, 2021 at 6:54 pm

- ★ You need an external power supply, because modules like sim9000a GSM requires considerable amount of amperes. So use an external supply and provide a common GND connection.

[Reply](#)

Anil ⌂ July 20, 2021 at 1:23 pm

Hi admin ,  
how to add Ultrasonic sensor to this project , i just want give buzzer info after the object detected , can u please include the ultrasonic sensor code and send  
thanks a lot ..

[Reply](#)

admin ⌂ July 26, 2021 at 6:48 pm

- ★ you can refer similar examples in,  
<https://mechatrofice.com/arduino/ultrasonic-distance-measurement>, and circuit & codes in  
<https://mechatrofice.com/tag/ultrasonic-sensor>.

[Reply](#)

pooja ⌂ July 30, 2021 at 3:23 pm

SIR IM GETTING MY LOACTION AS 0,0 WHAT IS THE MISTAKE

[Reply](#)

admin ⌂ August 2, 2021 at 9:41 am

- ★ Check GPS receiver values or the values of latitude and longitude variables.

[Reply](#)

Vamsi ⌂ September 12, 2021 at 9:45 pm

Admin sir if you don't mine can you please send the code with the replace of switch with 433 MHZ Transmitter ND reciever with RF IC boards and the output from RF

RECIVER is connected to ARUDINO uno and which it is connected to GPS module and GSIn module. When button is rf Ic board(transmitter) .there is signal transmitted to rf Ic board(reciver) which is connected with help of jumper wire from RECIVER to arduino uno which get location and transmitted to phone number using GSM module. Pls sir Pls sir waiting eagerly for your reply.. Thank you sir for this opportunity.

[Reply](#)

admin Ⓜ September 17, 2021 at 9:42 pm

- ★ Please check the email sent to your address.

[Reply](#)

Vamsi Ⓜ September 14, 2021 at 3:11 pm

Hi admin. I am getting location as 0,0 .can you please let me know what the issue .pls solve this issue.

[Reply](#)

hfa Ⓜ October 30, 2021 at 11:10 pm

can i use this code with dragino lora shield too? if i can, can you tell me what part i suppose to edit? pls reply, thanks admin

[Reply](#)

admin Ⓜ November 5, 2021 at 9:20 pm

- ★ If you have to add Lora with this project you have to include the additional library for Lora and need to add its functions in the code as a whole.

[Reply](#)

jazz Ⓜ October 31, 2021 at 1:58 pm

hi admin, thanks for the tutorial. but i have the problem. i don't get the reply from the module gsm. im using arduino uno, sim900a, and dragino shield lora. i have the project about lora. module gps work with the lora (another device) and send the location to module gsm with lora device too. but i don't get the reply from module gsm. please help, many thanks

[Reply](#)

jiminie Ⓜ January 30, 2022 at 3:22 pm

Hi sr, could it be possible for it to be triggered both in the switch, and sending sms request for gps location but only in one arduino? or do I need separate arduino for the both to function?

[Reply](#)

admin ⚡ January 31, 2022 at 8:28 pm

- ★ You can do both switch triggering and sending SMS with a single Arduino.

[Reply](#)

Ninshow ⚡ February 14, 2022 at 4:38 pm

Can you show how? Thank you

[Reply](#)

admin

★ ⚡ February 15, 2022 at 10:55 am

The code for GPS receiver and sending SMS is the same in both codes the only difference is the triggering. So by just adding two separate conditions to check, both types of triggering can be used.

[Reply](#)

Ninshow

⌚ February 17, 2022 at 7:20

am

I don't how to add the code can you give me an example please

admin

★ ⚡ February 18, 2022 at 1:09 pm

Try the below code, here the code to send SMS is defined as a function with name sendsms(). Then it can be called for both separate triggerings; switch and sms request.

```
void loop(){  
sgps.listen();  
while (sgps.available())  
{  
int c = sgps.read();  
if (gps.encode(c))  
{  
  
gps.f_get_position(&g  
pslat, &gpslon);  
}
```

```
}
```

```
}
```

```
// if condition to check
```

[Reply](#)

**Ninshow**

⌚ [February 18, 2022 at 1:36](#)

pm

It says that the 'pin' was  
not declared

It mark on

```
if (digitalRead(pin)==LOW)
```

**admin**

★ ⌚ [February 22, 2022 at 3:22](#)

pm

You should define a digital  
pin; add before void  
setup,  
const int pin = 9; //  
variable "pin" as digital  
pin 9.

**ninshow**

⌚ [March 28, 2022 at 7:58](#)

am

still the long and lat is  
00,00 even the gps are  
working

**admin**

★ ⌚ [March 28, 2022 at 8:51](#)

pm

Please try  
troubleshooting through  
the methods mentioned  
in the comments.

**NInshow**

⌚ [April 21, 2022 at 2:24 pm](#)

the sms request not  
working only the  
triggering button

Ninshow

⌚ April 21, 2022 at 5:35 pm

how to loop a text  
message every 5 minutes  
using the first program  
above?

admin

★ ⌚ April 21, 2022 at 9:01 pm

Use the below methods  
to send SMS every 5  
minutes.

```
if((millis() - last) ==  
300000){  
last=millis();  
//Add code to send SMS  
here.  
}
```

ninshow

⌚ April 23, 2022 at 3:27 pm

how about sending  
multiple contact in one  
click of push button.  
can you change the  
original triggering code  
below. atleast minimum 5  
contact number.  
thank you admin

admin

★ ⌚ April 27, 2022 at 9:10 pm

Repeat lines to send SMS  
with new numbers.  
Or store numbers in an  
array and use a loop  
function to send SMS for  
each number.

Refer :

<https://mechatrofice.com/arduino/gsm-send-sms#comment-14213>

finalproject ⌚ February 18, 2022 at 8:49 am

<https://www.google.com/maps/?q=27.988139,86.924974> ← this works when I used Maps for Browser but when I used Google Maps Apps(Android), it doesn't appear anything. What's the solution?

[Reply](#)

admin ⌂ February 22, 2022 at 3:29 pm

- ★ In google maps, you can enter latitude and longitude in the search box like 27.988139,86.924974.

[Reply](#)

Saniya ⌂ February 21, 2022 at 12:36 pm

Hi admin, can I use other modules for this like the sim900?

[Reply](#)

admin ⌂ February 22, 2022 at 3:22 pm

- ★ yes, you can.

[Reply](#)

danica ⌂ March 23, 2022 at 7:36 am

good day sir. in the gps there is 5v may i ask where it is suppose to connect and what "if condition" should be remove. is it the last part of the code or the in the upper part of the code where that code is if (gps.encode(c)) {  
gps.f\_get\_position(&gpslat, &gpslon);  
}  
}  
if (digitalRead(pin) == HIGH && state == 0) {  
sgsm.listen();  
sgsm.print("\r");  
delay(1000);  
sgsm.print("AT+CMGF=1\r");  
delay(1000);

hope you answer 😊

[Reply](#)

admin ⌂ March 28, 2022 at 8:50 pm

- ★ Connect to a power source of +5V with the GND connected in common. The if condition to alter the triggering is the last one that is "if (digitalRead(pin) == HIGH && state == 0)".

[Reply](#)

Erik A. Ⓜ March 31, 2022 at 1:55 pm

Hi, when sending Google Maps coordinates as follows:

[code]

```
sgps.print("http://maps.google.com/maps?q=");
sgps.println(gpslat);
sgps.print(',');
sgps.println(gpslon);
```

[/code]

then an sms is received with url as follows:

<https://maps.google.com/maps?q=51.201694> but the

longitude appears outside the url link: first a comma then  
the longitude.

How can the longitude be made part of the url link?

Thanks a lot!

Erik

[Reply](#)

admin Ⓜ April 2, 2022 at 9:47 pm

- ★ Check for any space or hidden characters  
between the text, if any try removing them.

[Reply](#)

Erik A. Ⓜ May 7, 2022 at 10:07 am

Solved: your Google Maps command  
should be changed to

```
sgps.print("https://www.google.com/ma
ps/search/?api=1&query=");
sgps.print(gpslat, 6);
sgps.print(',');
sgps.print(gpslon, 6);
```

[Reply](#)

admin Ⓜ May 11, 2022 at 10:08 am

- ★ Thank you  for your  
suggestion.

[Reply](#)

Xiaozzz Ⓜ April 20, 2022 at 11:08 am

Hi, can you please help me admin, my gps just sends  
0.000000 latitude and longitude locations. I already  
checked that the gps is working fine with other codes.

[Reply](#)

Maanyat Periwal Ⓜ May 17, 2022 at 12:33 pm

Will it work with SIM 800L

[Reply.](#)

admin Ⓜ May 18, 2022 at 9:18 pm

- ★ Yes, it works.

[Reply.](#)

Maanyat Periwal Ⓜ May 18, 2022 at 9:21 pm

The same code ??

[Reply.](#)

Rahul Ⓜ June 14, 2022 at 6:08 pm

Hello sir can I use sim800A & is it work with same code?

[Reply.](#)

admin Ⓜ June 19, 2022 at 9:20 pm

- ★ Yes, it works.

[Reply.](#)

john Ⓜ June 26, 2022 at 2:07 pm

hey admin.. what if i used ultrasonic sensor as trigger to send gps coordinates using gsm simm800L

[Reply.](#)

admin Ⓜ June 30, 2022 at 5:36 pm

- ★ No problem, you can use any triggering method.  
It will work.

[Reply.](#)

faiz Ⓜ October 12, 2022 at 11:12 pm

hiii sir, Vcc of GPS module should be connected to 5v power supply? and please give me the link to check whether GPS and GSM interfaced with Arduino Uno are working individually or not?

[Reply.](#)

admin Ⓜ October 13, 2022 at 9:50 am

- ★ Available links are given in the article just above the given circuit arrangement, please refer to it.

[Reply.](#)

gablin Ⓜ October 28, 2022 at 12:10 pm

I'm using Sim800L EVB is this works fine or not? and if you have source code for using sim800L evb can you kindly send a link much appreciate

[Reply.](#)

## LEAVE A REPLY

**Comment \*****Name \*****Email \*** I need email notifications related to this comment.**Post Comment**

Terms of service and privacy policy | Contact us  
Mechatrofice © 2021. All Rights Reserved.

