



Jun 07 Telit GM862-GPS and AT commands

Paul

LibraryToy, Sensor

gprs, gps, java, serial port

5 Comments

I purchased a [Telit GM862-GPS evaluation kit](#) from SparkFun.



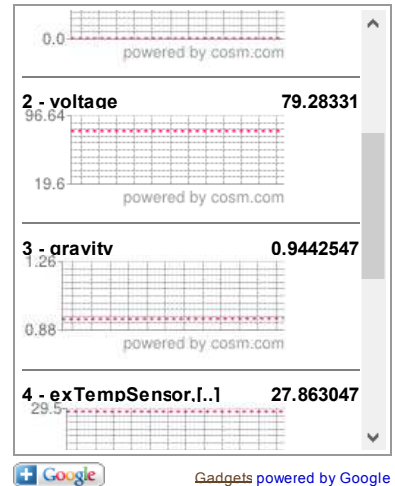
To assemble this USB device is simple:

1. carefully connect [MMCX to SMA cable](#) to GE862 module and [GPRS antenna](#) and [GPS antenna](#) respectively
2. insert a SIM card to your GE862 module (I use [Vodafone Australia pre-paid 365 Days plan](#), since M2M application use very few data but requires long expiry date to save cost)
3. connect GE862 module with evaluation board
4. connect the board to USB (This module is thirsty, if module does not bootup or work correctly, please connect a 5-9V wall brick to provide enough power)

Before switch it on, you need to install a terminal application on your computer. I am using [Tera Term](#).

You can switch on the module by press and hold the button on board for 5 seconds, like how you turn on your mobile phone. You should see the green STAT led on and off periodically.

Run Tera Term, select the COM port of this device and click OK to connect.



pdeng@sensorapp.net

Categories

[Arduino](#)

[LibraryToy](#)



Once connect, type AT and enter, if terminal displays OK, it works correctly.

Here below are some AT commands examples:

Manufacturer Identification: AT+GMI

```
AT+GMI
Telit
OK
```

Model Identification: AT+GMM

```
AT+GMM
GM862-GPS
OK
```

Revision Identification: AT+GMR

```
AT+GMR
07.03.400
OK
```

Search Available Operator: AT+COPS=?

```
AT+COPS=?
+COPS: (2,"VODAFONE AUS",,"50503"),(3,"YES OPTUS",,"50502"),(3,"Telstra",,"50501")
OK
```

Show Current Service Provider: AT+COPS?

```
AT+COPS?
+COPS: 0,0,"VODAFONE AUS"
OK
```

Cell Monitor: AT#MONI

```
AT#MONI
#MONI: VODAFONE AUS BSIC:45 RxQual:0 LAC:0C20 Id:82E8 ARFCN:113 PWR:-74dbm
OK
```

Serving Cell Information: AT#SERVINFO

```
AT#SERVINFO
#SERVINFO: 113, -74, "VODAFONE AUS", "50503", 45, 0C20, 06, 1, "II", 01, 6
OK
```

Make Phone Call: ATDPHONE_NUMBER

```
ATD12345678;
OK
```

Show Caller Number: AT+CLIP=1

```
AT+CLIP=1
OK
```

Projects
Sensor
SunSPOT
Tutorial
Uncategorized
WSN

Archives

November 2012 (1)
November 2011 (1)
July 2011 (1)
November 2010 (5)
October 2010 (3)
September 2010 (6)
August 2010 (4)
July 2010 (9)
June 2010 (5)
May 2010 (1)
April 2010 (1)
March 2010 (2)
February 2010 (2)
September 2009 (3)
August 2009 (1)
February 2009 (3)
December 2008 (2)
November 2008 (1)
October 2008 (4)
September 2008 (2)
August 2008 (2)
July 2008 (8)
June 2008 (2)
May 2008 (11)
April 2008 (11)
March 2008 (12)
February 2008 (3)
November 2007 (1)
October 2007 (5)
September 2007 (1)

Recent Comments

Vincenzo Cocca on [Sharp Dust Sensor and Arduino](#)
hozone on [Sharp Dust Sensor and Arduino](#)
Vincenzo Cocca on [Sharp Dust Sensor and Arduino](#)
Vincenzo Cocca on [Sharp Dust Sensor and Arduino](#)
Sharath on [Simple EHCACHE Application](#)

Tags

.Net 3g 802.15.4 analog Arduino
Authentication barometric pressure c C# camera
compatibility dac dust ecg flex sensor gm862
gps gprs gps heart rate monitor humidity i2c
ibes Internet of Things java led Proxy
publication pwm rch rfid Sensor sensor
network sensor web serial port servo sms
sonar spaghts SPI SunSPOT telit
temperature TinyOS unimelb web service

RING

+CLIP: "CALLER NUMBER HERE",129,"",128,"",0

Send SMS with Text Mode: AT+CMGF=1

Send SMS: AT+CMGS=PHONE_NUMBER

After type in the text content, press CTR-Z to send through

AT+CMGF=1

OK

AT+CMGS=12345678

> hello this is a test message

+CMGS: 3

OK

Configure GPRS settings: AT+CGDCONT=1,"IP","vfineternet.au","0.0.0.0",0,0

Set User ID: AT#USERID=""

Set Password: AT#PASSW=""

Connect to GPRS: AT#GPRS=1

AT+CGDCONT=1,"IP","vfineternet.au","0.0.0.0",0,0

OK

AT#USERID=""

OK

AT#PASSW=""

OK

AT#GPRS=1

+IP: 120.17.147.227

OK

Initiate Socket Connection: AT#SKTD=0,80,"www.unimelb.edu.au",0,0

HTTP GET: GET ctrl+m, ctrl+j

AT#SKTD=0,80,"www.unimelb.edu.au",0,0

CONNECT

{type "GET" and press ctrl+m, ctrl+j}

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">

<html>

<head>

<tit:

</head>

<body>

<h1>Index of </h1>

<table><tr><th><hr></th></tr>

</table>

<addi

</body></html>

NO CARRIER

<

>

GPS Position:

AT\$GPSACP

\$GPSACP: 015252.000,3752.6786S,14510.1525E,1.2,138.6,3,12.26,0.10,0.05,0700

OK

<

>

More Telit AT commands can be found here:

<http://www.gm862.com/module/infopool/download.php?id=542>

More blog entries about GE862 module: <http://en.wordpress.com/tag/telit-gm862/>

<http://tinkerlog.com/2009/05/15/interfacing-arduino-with-a-telit-gm862/>

Sun SPOT and Flex Sensor

Heart Rate Monitoring

5 Comments (*+add yours?*)

lan

Aug 19, 2011 @ 15:03:28

Thanks for the GM* command meanings, Telit's Software manual doesn't even include them properly!



Working on IPSO CHALLENGE FAQ section -- Keep sending in questions!

3 saat önce Twitter hizmetinden - Yorumla

International Open Data Day on Saturday - <http://www.webofthings.org/2013...>

4 saat önce Web of Things hizmetinden - Yorumla

ltron CEO Talks Smart Grids and Cities, Big Data, China, and Water -

<http://www.wsnbuzz.com/?p=2634>

dün WSNBuzz hizmetinden - Yorumla

IPSO Alliance and Sensors Expo®

Announce \$10,000 "IPSO CHALLENGE

2013" IP Innovation Competition -

<http://www.wsnbuzz.com/?p=2632>

dün WSNBuzz hizmetinden - Yorumla

Smart Grid products and enhancements announced by ABB -

<http://www.wsnbuzz.com/?p=2630>

dün WSNBuzz hizmetinden - Yorumla

uIP Wikipedia: 151.95.210.146 at 16:51, 20 February 2013: ← Previous revision

Revision as of 16:51, 20 Febru...

<http://en.wikipedia.org/w...>

dün Twitter hizmetinden - Yorumla

uIP Wikipedia: AnomieBOT: Dating maintenance tags: {{Citation needed}}:

Dating maintenance tags: {{Citation need... <http://en.wikipedia.org/w...>

dün Twitter hizmetinden - Yorumla

#IPSO anuncian la competencia de innovación en IP

<http://www.marketwire.com/press-r...>

Salı Twitter hizmetinden - Yorumla

I liked a @YouTube video

<http://www.youtube.com/watch...> Sophia

Grace's Show Stopping Performance!



Salı Twitter hizmetinden - Yorumla

Deficit round robin scheduling with adaptive weight control - Test & Measurement World (blog) -

<http://news.google.com/news...>

Salı "wireless sensor networks" -...

hizmetinden - Yorumla

[View Wireless's FriendFeed - Abone ol](#)



Ian

Aug 19, 2011 @ 15:05:07

Using GM862 with Netduino Plus and Omilex GM862 Arduino Shield, – had to be modified to get the 3.3V serial to work correctly, by removing the transistor resistor chips



Ian

Aug 20, 2011 @ 21:24:58

I am having some trouble with AT#GPRS=1, as the response I get is +CME ERROR activation failed

Any Ideas?



Paul

Sep 20, 2011 @ 08:47:34

Hi Ian,

You need to contact Telit to get a new firmware to upgrade!

This is a known bug to Telit.

Cheers,

Paul



Jim

Dec 01, 2012 @ 07:28:38

Hello,

I was wondering if I may have some advice on how to insert an AT command into a code I have to show the GSM module position without the need for GPS? Any advice would be greatly appreciated.

Respectfully,

Jim.

Leave a Reply

Name

Mail

Website

Submit Comment

CAPTCHA Code *

[Spam Protection](#) by WP-SpamFree

