Shield GPS + carte SD + antenne active GPS

Produit 7/7

liste des produits

Agrandir l'image

- PLUS DISPONIBLE -

Ce shield GPS + carte SD + antenne active GPS est idéal pour faire la la géolocalisation sur l'acquisition de donnée. Le GPS va vous donner la position précise, ainsi que l'horodatage, la carte SD vous permettra d'enregistrer ces informations ainsi que vos acquisitions. Bien sur, d'autres utilisations sont possibles, limitées par votre imagination ...

L'antenne active avec un câble de 3m vous permet d'avoir une exellente réception, ce qui est souvent le problème avec le GPS.

Le shield donne accés aux pins sur des connecteurs 3 broches.

Présentation en anglais :

It's based on EB-365 GPS module , and the footprints is compatible with Arduino/MEGA boards. The regular GPS pins (RX, TX) can be connected to D0-D7 of Arduino.

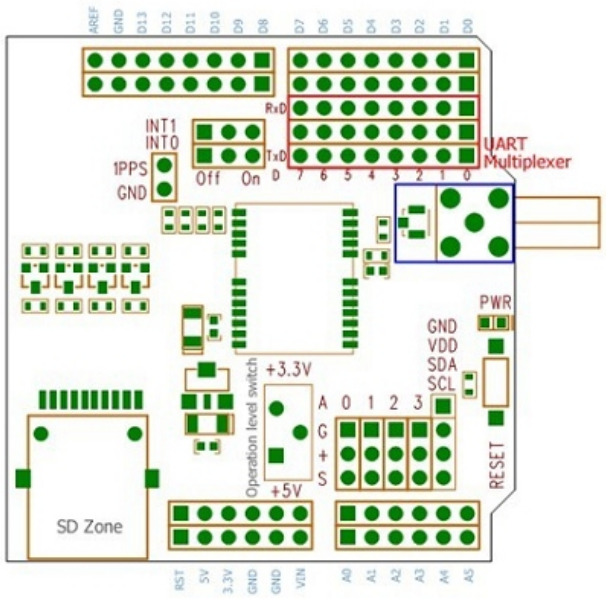
Adding GPS to your Arduino has never been easier. Multiple GPS receivers attach easily to the shield, and with the example sketch (check below), you will be able to locate your exact position within a few meters. Here's where we are. GPS also gives you amazingly accurate time! It's suitable for the following applications with Arduino or Arduino compatible boards :

- Automotive navigation
- Personal positioning
- Fleet management
- Marine navigation

Features

- With Micro SD interface
- Active antenna design with high receive sensitivity, compatible normal antenna
- Extremely fast time to first fix at low signal level
- UART interface
- Operation temperature: -40℃ ~ +85℃

Hardware



Arduino PIN	Description
D0	Data
D1	Din
D2	-
D3	-
D4	-
D5	-
D6	-
D7	-
D8	-
D9	-
D10	CSN
D11	MOSI
D12	MISO
D13	SCK
A0	Breakout
A1	Breakout
A2	Breakout
A3	Breakout
A4	IIC_SDA
A5	IIC_SCL

specification

Version 1.1

- Leaf maple

Compatible Mainboard	• Arduino Deumlanove/UNO • Arduino MEGA • ChipKit MAX32 • ChipKit UNO32 • FEZ Panda II • Freeduino • Iteadmaple • Iteaduino • Iteaduino ADK • Iteaduino BT • Iteaduino MEGA 2560 • Simple Cortex • Seeeduino • Seeduino MEGA
Shield Functions	• Storage • Wireless
Board Size	56mm x 54mm
Operation Level	• Digital 3.3V • Digital 5V
Stackable	Yes
Model	IM120417017
Accessories	No
Weight	45.00g

Caractéristiques de l'antenne :

Overview

This is a GPS Active Antenna. Its cable is 3m.

Features

- Frequency: 1575.42MHZ
- Voltage: 3.0-5.0V
- Size: 3.9 x 5.0cm
- Cable Length: 3m(Approx.)
- Water resistant
- The antennas contains a high performance GPS patch antenna and a high-tech low noise amplifier •Provides excellent signal amplification and out-band-rejection for the receiver
- Mounting: Magnetic base

Compatible With

- Garmin: 50CSX, GR-236, GR-239, 271BT, 321
- GlobalSat BC-307, BT-308, BT-318, SDIO
- Magellan: 800, 860, 860T, 3000T, 3240 , 3050, 3050T
- Navman: PIN, PiN 100, PIN 300, PiN 570, iCN 310, iCN 320, iCN 330, iCN 510, iCN 520, iCN 530, iCN 550
- Holux: GR-236, GR-239, BT, 321, 271
- Lowrance iWay 250, 250C

Download

Demo Code

- DC_gps_logger.zip2012-05-11 15:53:290.7KB

Datasheet

- DS_IM120417017_ArduinoGPSshield.pdf2012-05-16 02:42:47362.4KB

Software

- SF_u-center_5.07_Installer.zip2012-05-11 15:51:096380.9KB

Schematic

- SCH_IM120417017_ArduinoGPSshield.pdf2012-05-11 15:49:06

Useful Links

Additional data on the GPS shield

here's the demo code for the GPS shield

Link: http://arduino.cc/forum/index.php/topic,113603.0.html

Iteaduino MEGA 2560 + GPS shield to make a logger

Link: http://devicter.blogspot.com/2012/03/gps.html

New Years Countdown Clock With SMS Display

Link: http://blog.iteadstudio.com/new-years-countdown-clock-with-sms-display/

Exemple pour Test de base :

```
/* Test GPS Shield 1.1 de Itead Studio
* Zartronic.fr 05/2013
* Shield GPS : RX sur 3 et TX sur 2
* RX du GPS 3 <- Tx de Uno (SoftSerial)
* TX du GPS 2 -> Rx de Uno (SoftSerial)

Exemple de data :
Zartronic.fr Demo GPS Shield 1.1 Itead Studio
$GPGGA,101808.000,4343.1977,N,00715.1093,E,1,08,1.0,74.3,M,48.5,M,,0000*6C
$GPGLL,4343.1977,N,00715.1093,E,101808.000,A*34
$GPGSA,A,3,26,05,10,09,08,15,28,07,,,,,1.8,1.0,1.5*36
$GPRMC,101808.000,A,4343.1977,N,00715.1093,E,0.00,,150513,,*1E
$GPVTG,,T,,M,0.00,N,0.0,K*7E
$GPGGA,101809.000,4343.1977,N,00715.1093,E,1,08,1.0,74.3,M,48.5,M,,0000*6D
etc ...
*/

#include <SoftwareSerial.h>
SoftwareSerial ssGps(2,3); // RX SS <- TX Gps(2), TX SS -> Rx Gps(3)

void setup()
{
Serial.begin(115200); // Arduino <-> USB
while (!Serial) {
; // wait for serial port to connect. Needed for Leonardo only
}
Serial.println("nZartronic.fr Demo GPS Shield 1.1 Itead Studio");
ssGps.begin(9600);
}

void loop()
{
if (ssGps.available())
Serial.write(ssGps.read());
}
```

Contenu :

1 x Shield GPS

1 x Antenne Active GPS

- **Prix : 999,00€**
- Modèle : ITSGPSANT
- En Commande >10 jours
- Fabricant : Itead

Ajouter au Panier : 1

ajouter au panier

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