

RASPBERRY PI GPS ADD-ON

De ITEAD Wiki

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Overview

Raspberry Pi GPS Add-on is customized for Raspberry Pi interface based on NEO-6 GPS module. Through the serial port on Raspberry Pi, data returned from NEO-6 module can be received, thus information such as the current location and time can be searched.

Go shopping RASPBERRY PI GPS ADD-ON (IM131227001) (<http://imall.iteadstudio.com/raspberry-pi-gps-add-on.html>)

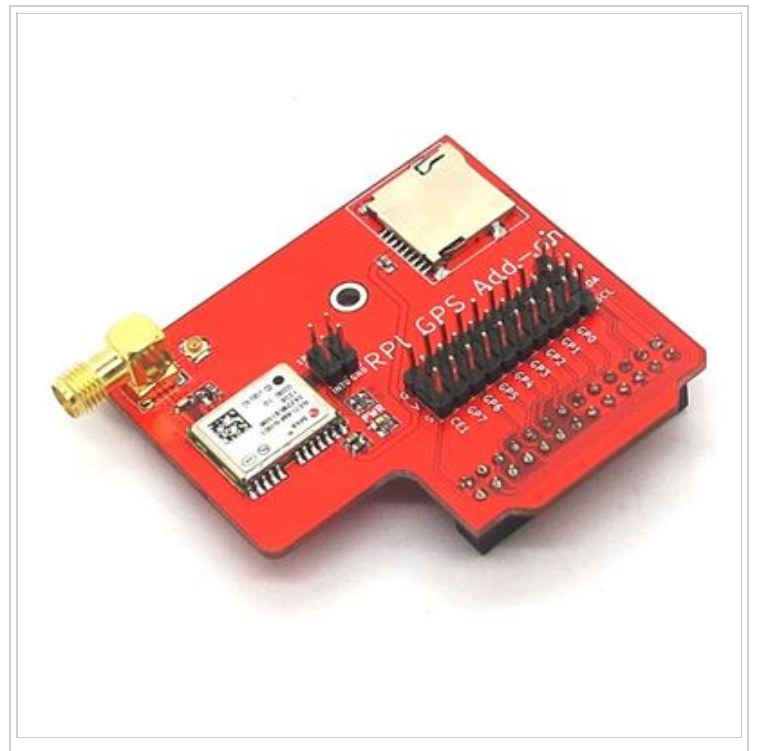
Specifications

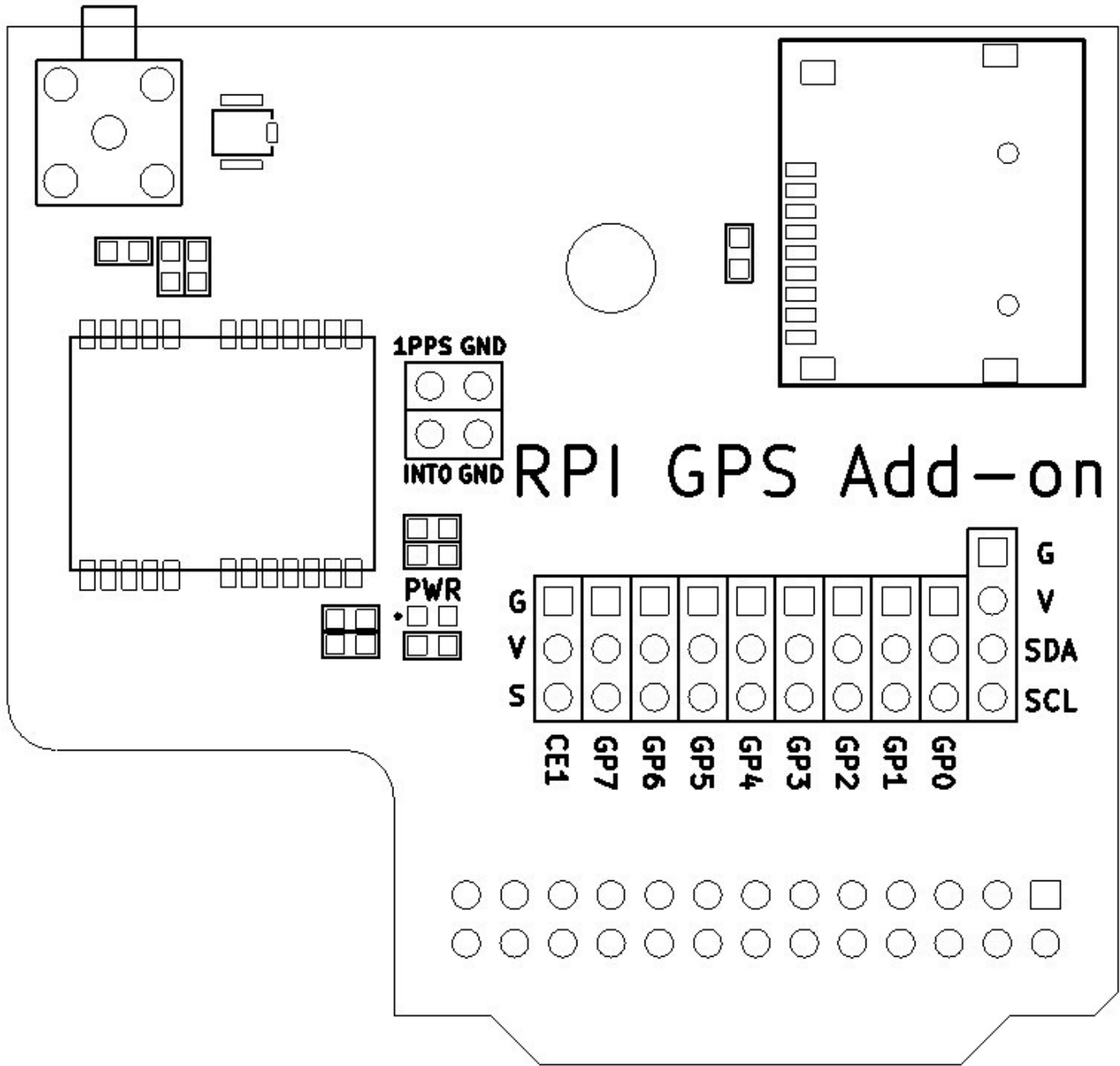
PCB size	58.5mm X 54.6mm X 1.6mm
Input voltage	3.3V
Interface	UART
Baud rate	38400 (default)

Electrical characteristics

Parameters	Min.	Typical	Max.	Unit
Supply voltage	-	3.3	3.6	VDC
Current consumption (average)	-	40	-	mA

Hardware





Pinmap

Raspberry PI interfaces

Raspberry PI Pin N.O.	Pin name	Pin of GPS Module	Description
11	GPIO0	-	Electronic brick interface
12	GPIO1	-	Electronic brick interface
13	GPIO2	-	Electronic brick interface
15	GPIO3	-	Electronic brick interface
16	GPIO4	-	Electronic brick interface
18	GPIO5	-	Electronic brick interface
22	GPIO6	1PPS	Pulse per second / Electronic brick interface
7	GPIO7	EXINT	External interruption pin / Electronic brick interface
3	SDA0	-	Electronic brick interface
5	SCL0	-	Electronic brick interface
24	CE0	CS	Chip selection for Micro SD card
26	CE1	-	Electronic brick interface
19	MOSI	MOSI	Data input for Micro SD card
21	MISO	MISO	Data output for Micro SD card
23	SCLK	SCLK	Clock for Micro SD card
8	TXD	GPS_RX	Receiving end for SIM900 serial port
10	RXD	GPS_TX	Sending end for SIM900 serial port
2	+5V	-	
1	+3.3V	-	
6	GND	-	

Indicator

- PWR

Power: When there is normal supply to the board, the power indicator keeps on.

Download

Datasheet for RASPBERRY PI GPS ADD-ON (ftp://imall.iteadstudio.com/Modules/IM131227001/DS_IM131227001.pdf)

Schematic for RASPBERRY PI GPS ADD-ON (ftp://imall.iteadstudio.com/Modules/IM131227001/SCH_IM131227001.pdf)

Useful Links

- **Raspberry Pi + ITEAD Studio GPS** (<https://github.com/mcauser/Raspberry-Pi-ITEAD-Studio-GPS-NEO-6M>) by mcauser

This is a tutorial demonstrated how to use ITEAD RPI GPS Add-on with Raspberry Pi.

Obtenido de «http://wiki.iteadstudio.com/index.php?title=RASPBERRY_PI_GPS_ADD-ON&oldid=2889»

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