

4G / 3G / 2G / GSM / GPRS / GNSS HAT für Raspberry Pi, EU Version



Artikel-Nr.:	RPI-SIM7600E
Hersteller:	Waveshare
EAN:	614961952294
Herkunftsland:	China
Zolltarifnummer:	85176200
Gewicht:	0.132 kg

Overview

The SIM7600E-H 4G HAT is a 4G/3G/2G communication and GNSS positioning module, which supports LTE CAT4 up to 150Mbps for downlink data transfer. it is pretty low power consumption.

You can connect this 4G module with computer to surf the Internet, or attach it onto Raspberry Pi to enable functions like 4G high speed connection, wireless communication, making telephone call, sending SMS, global positioning, etc.

Features

- Raspberry Pi connectivity, compatible with Raspberry Pi Zero/Zero W/Zero WH/2B/3B/3B+
- Supports dial-up, telephone call, SMS, MMS, mail, TCP, UDP, DTMF, HTTP, FTP, etc.
- Supports GPS, BeiDou, Glonass, LBS base station positioning
- Onboard USB interface, to test AT Commands, get GPS positioning data, and so on
- Onboard CP2102 USB to UART converter, for serial debugging
- Breakout UART control pins, to connect with host boards like Arduino/STM32
- SIM card slot, supports 1.8V/3V SIM card
- TF card slot for storing data like files, messages, etc.
- Onboard audio jack and audio decoder for making telephone call
- 2x LED indicators, easy to monitor the working status
- Onboard voltage translator, operating voltage can be configured to 3.3V or 5V via jumper
- Baudrate: 300bps ~ 4Mbps (default: 115200bps)
- Autobauding baudrate: 9600bps ~ 115200bps
- Control via AT commands (3GPP TS 27.007, 27.005, and V.25TER command set)
- Supports SIM application toolkit: SAT Class 3, GSM 11.14 Release 99, USAT
- Comes with development resources and manual (examples for Raspberry Pi/Arduino/STM32)

Communications Specifications



LTE

WCDMA / TD-SCDMA / CDMA 2000

EDGE

GSM/GPRS

Band	SIM7600E-H: -- LTE-FDD B1/B3/B5/B7/B8/B20 -- LTE-TDD B38/B40/B41	SIM7600E-H: -- UMTS/HSPA+ B1/B5/B8	GSM/GPRS/EDGE 900/1800 MHz	
	SIM7600CE-T: -- LTE-TDD B38/B39/B40/B41 -- LTE-FDD B1/B3/B8	SIM7600CE-T: -- UMTS/HSDPA/HSPA+ B1/B8 -- TD-SCDMA B34/B39 -- CDMA 1X/EVDO BC0		
Generation	4G	3G	2.5G	2G
Emitting power 0.25W			0.5W@EGSM900 0.4W@DCS1800	2W@GSM900 1W@DCS1800
Data Speed	LTE CAT 4 Uplink≤50 Mbps Downlink≤150 Mbps	UMTS Uplink≤384Kbps Downlink≤384Kbps	EDGE Uplink≤236.8kbps Downlink≤236.8kbps	GPRS Uplink≤85.6kbps Downlink≤85.6kbps
	□□□	HSPA+ Uplink≤5.76Mbps Downlink≤42Mbps	□□□	□□□
SIM Card	Normal SIM (Not Included)			

GNSS Specifications

- Receiver type
 - 16-channel
 - C/A code
- Sensitivity
 - Tracking: -159 dBm (GPS) / -158 dBm (GLONASS) / TBD (BD)
 - Cold starts: -148 dBm
- Time-To-First-Fix
 - Cold starts: <35s
 - Hot starts: <1s
- Accuracy
 - Position: <2.5m CEP

SMS and Audio Specifications

- SMS
 - Supported types: MT, MO, CB, Text, PDU
 - Storage: USIM card and ME (default)
- Audio feature
 - Supports echo cancellation
 - Supports noise reduction

Other Specifications

- Power supply: 5V
- Operating voltage: 5V/3.3V (configured via jumper)
- Operating temperature: -30°C ~ 80°C
- Storage temperature: -45°C ~ 90°C
- Dimension: 56.21mm x 65.15mm

Package Content

- SIM7600E-H 4G HAT x1
- LTE Antenna x1
- GPS External Antenna (B) x1
- USB type A plug to micro plug cable x2

Development Resources

- http://www.waveshare.com/wiki/SIM7600E-H_4G_HAT

Weitere Bilder:

