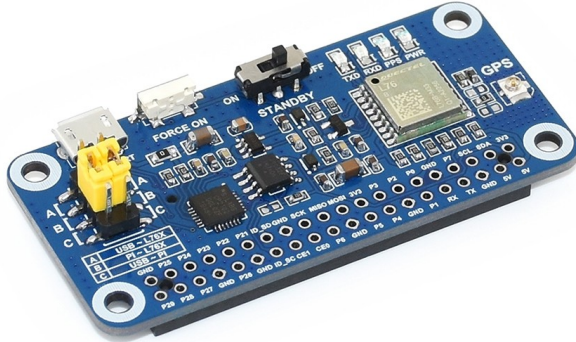




## L76X Multi-GNSS / GPS / BDS / QZSS HAT für Raspberry Pi



|                  |              |
|------------------|--------------|
| N.º artículo:    | RPI-MULTIHAT |
| Hersteller:      | Waveshare    |
| EAN:             | 614961954243 |
| Herkunftsland:   | China        |
| Zolltarifnummer: | 85176200     |
| Gewicht:         | 0.129 kg     |

### Overview

This is a Raspberry Pi GNSS HAT which supports Multi-GNSS systems: GPS, BDS, and QZSS, with advantages such as fast positioning, high accuracy, low power consumption, and so on.  
It is an easy way to enable global positioning function for your Raspberry Pi.

### Features

- Supports Multi-GNSS systems: GPS, BDS, and QZSS
- EASY™, self track prediction technology, help quick positioning
- AlwaysLocate™, intelligent controller of periodic mode for power saving
- Supports DGPS, SBAS (WAAS/EGNOS/MSAS/GAGAN)
- UART communication baudrate: 4800~115200bps (9600bps by default)
- Onboard battery holder, supports ML1220 rechargeable battery, for preserving ephemeris information and hot starts
- 4x LEDs for indicating the module working status
- Comes with development resources and manual (examples for Raspberry Pi/Arduino/STM32)

### GNSS Specifications

- Band: GPS L1(1575.42Mhz), BD2 B1 (1561.098MHz)
  - Channels: 33 tracking ch, 99 acquisition ch, 210 PRN ch
  - C/A code
  - SBA: WAAS, EGNOS, MSAS, GAGAN
- Horizontal position accuracy:
  - Autonomous: <2.5mCEP
- Time-To-First-Fix @-130dBm (EASY™ enabled):
  - Cold starts: <15s
  - Warm starts: <5s
  - Hot starts: <1s
- Sensitivity:
  - Acquisition: -148dBm
  - Tracking: -163dBm
  - Re-acquisition: -160dBm
- Dynamic performance:
  - Altitude (max): 18000m
  - Velocity (max): 515m/s
  - Acceleration (max): 4G



## General Specifications

- Communication interface: UART
- Baudrate: 4800~115200bps (9600bps by default)
- Update rate: 1Hz (default), 10Hz (max)
- Protocols: NMEA 0183, PMTK
- Power supply voltage: 5V / 3.3V
- Operating current: 13mA
- Operating temperature: -40℃ ~ 85℃
- Dimensions: 65mm x 30.5mm

## Applications

- Vehicle tracking
- Asset tracking
- Security system
- Industrial PDA
- GIS application

## Lieferumfang

- L76X GPS HAT x1
- GPS External Antenna (B) x1
- USB type A plug to micro plug cable x1
- RPi screws pack (2pcs) x1
- 2x20PIN pinheader x1

## Development Resources

Wiki: [www.waveshare.com/wiki/L76X\\_GPS\\_HAT](http://www.waveshare.com/wiki/L76X_GPS_HAT)

## Weitere Bilder:

