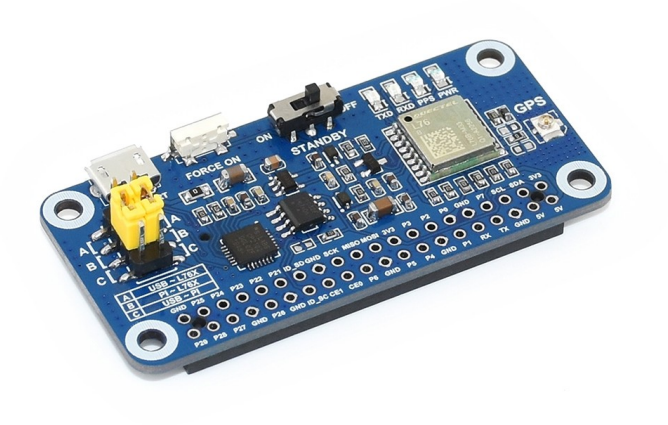
L76X Multi-GNSS / GPS / BDS / QZSS HAT für Raspberry Pi



WAVESHARE
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Artikel-Nr.:	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

Alle hier aufgeführten Namen und Zeichen sind Eigentum des jeweiligen Herstellers. Druckfehler, Änderungen & Irrtümer vorbehalten.

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

Weitere Bilder:











GPS ANTENNA





