

INDUSTRIAL PRODUCT DATASHEET

# Raspberry Pi LoRa/GPS HAT - support 868M frequency

Raspberry Pi HAT with 868 MHz LoRa and advanced GPS for long-range communication and precise positioning.

SKU

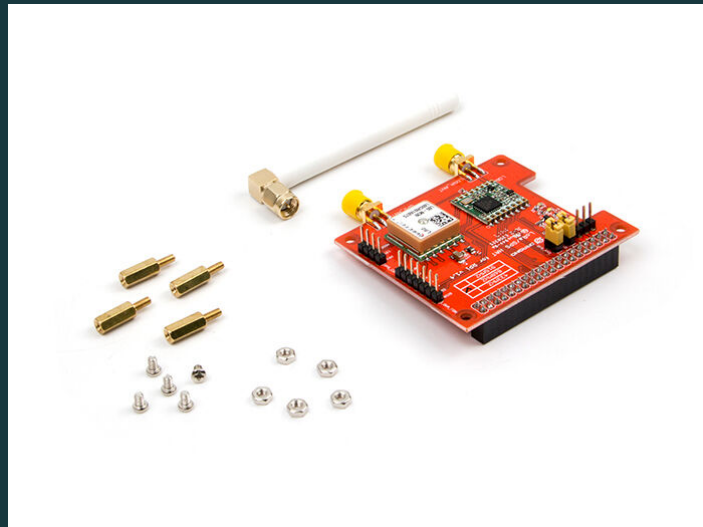
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UPDATED

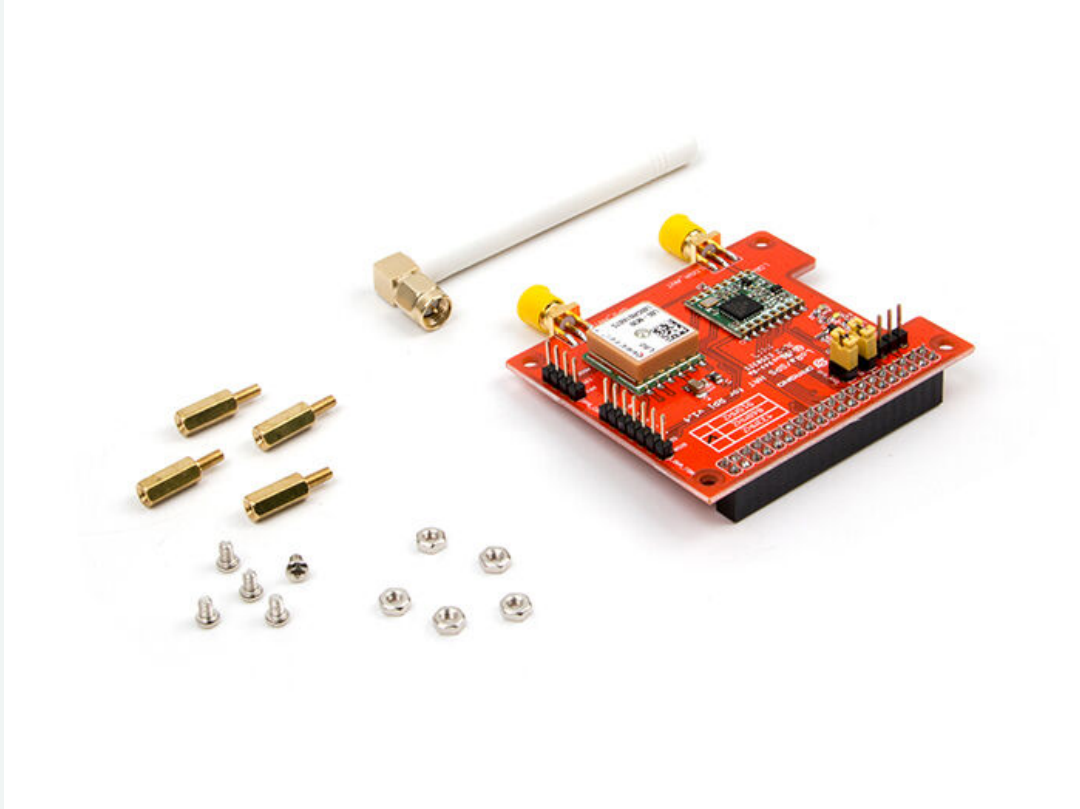
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PRICE

\$32.00(Excl. VAT)



# Overview



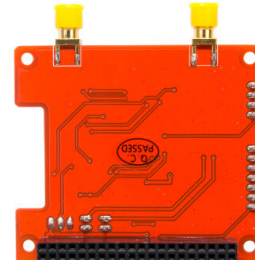
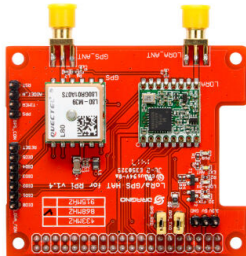
The Raspberry Pi LoRa/GPS HAT operates on the 868 MHz frequency band, adding long-range LoRa communication and GPS positioning to Raspberry Pi 2/3. It features a LoRa modem with multiple modulation schemes, automatic RF sensing, and advanced GPS with LNA, EASY™ AGPS, and AlwaysLocate™ power-saving mode.

# Key Features

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- Frequency Band: 868 MHZ
- Compatible with Raspberry Pi 2 Model B/Raspberry Pi 3.
- LoRa™ Modem
- FSK, GFSK, MSK, GMSK, LoRa™, and OOK modulation
- Preamble detection
- Baud rate configurable
- Built-in temperature sensor and low battery indicator
- Excellent blocking immunity
- Automatic RF Sense and CAD with ultra-fast AFC
- Support DGPS, SBAS(WAAS/EGNOS/MSAS/GAGAN)
- GPS automatic switching between internal patch antenna and external active antenna
- PPS VS. NMEA can be used in time service
- Support SDK command
- Built-in LNA for better sensitivity
- EASY™, advanced AGPS technology without external memory
- AlwaysLocate™, an intelligent controller of periodic mode
- GPS FLP mode, about 50% power consumption of normal mode
- GPS support short circuit protection and antenna detection

# Product Gallery



## Part List

|                             |   |
|-----------------------------|---|
| Lora/GPS HAT                | 1 |
| Brass cylinders             | 4 |
| Screws                      | 4 |
| Nuts                        | 4 |
| Glue Stick Antenna(868 MHZ) | 1 |

## Compliance & Logistics



|          |              |
|----------|--------------|
| HSCODE   | 8517709000   |
| USHSCODE | 8517790000   |
| UPC      | 841454118749 |
| EUHSCODE | 8517180000   |
| COO      | CHINA        |

## Resource Links

- <https://www.seeedstudio.com/Raspberry-Pi-LoRa-GPS-HAT-support-868M-frequency.html>

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