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INDUSTRIAL PRODUCT DATASHEET

LoRa/LoRaWAN Gateway - 915MHz for Raspberry Pi 3

LoRa/LoRaWAN Gateway - 915MHz for Raspberry Pi 3 with Semtech SX1301 engine, 8-channel demodulation, and long-range capabilities.

SKU	UPDATED	PRICE
110060623	2026-04-09 12:46:34	$289.00(Excl. VAT)



Overview



The LoRa/LoRaWAN Gateway - 915MHz for Raspberry Pi 3 is based on the Semtech SX1301 concentrator engine, delivering sensitivity down to -142.5 dBm and output power up to 27 dBm for a range up to 15 km line-of-sight. It features 8 uplink channels with automatic adaptive spreading factor (SF7–SF12), 2x SX1257 Tx/Rx front-ends, and fully supports Class A, B, and C with FCC/CE compliance.

Key Features

Features

- Based on Lora Concentrator Engine: Semtech SX1301
- Sensitivity up to -142.5 dBm @300bps
- Max output power up to 27dBm
- Range up to 15 km (Line of Sight), ~2km in dense urban areas
- Designed for **915MHz US/Australia LoRA ISM band**
- Emulates 49 x LoRa demodulators, 10 programmable parallel demodulation paths, 8 uplink ch, 1 downlink ch
- Automatic adaptive to spreading factor from SF12 to SF7 in each of 8 channels
- Operating Temperature: -40 to 85 ℃
- 2x SX1257 as Tx/Rx front-ends
- RP-SMA connector for 915MHz antenna
- Fully support Class A, Class B, Class C
- FCC & CE compliance

Product Gallery









Part List

- Gateway module RHF0M301 – 915 x 1
- RPi 3 Bridge RHF4T002 x 1
- 16GB Micro SD Card – Class 10 x 1
- USB to UART Adapter x 1
- 0dBi Rubber Duck Antenna x 1
- Micro USB Cable 20cm x1
- Micro USB Cable 100cm x 1
- RJ45 Ethernet Cable 200cm x 1
- 5V/2.1A American Standard power supply with USB Type-A Output x 1

Compliance & Logistics



HSCODE	9023009000
USHSCODE	9023000000
UPC	841454119418
EUHSCODE	9023001000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/LoRa-LoRaWAN-Gateway-915MHz-for-Raspberry-Pi-3.html
- Getting started guide - User Manual - v3.2.pdf
- RHF0M301 Datasheet - v1.3.pdf
- RHF0M301 Product Brief - v3.1.pdf

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