



Portal A Helium HNT Full Hotspot Gateway

Overview:

Portal A is a high-efficiency hotspot gateway for HNT. Compatible with Helium LongFi, it features multiple network options including a LoRa module. It supports one of the world's first peer-to-peer wireless IoT networks based on LoRaWAN protocol, and enables long-range transmissions with low power consumption.

Main Features:

- High-performance Quad Core Cortex-A55 CPU up to 1.8GHz
- Compatible with Helium LongFi that combines LoRaWAN and Helium Blockchain
- Convenient set-up and easy management using a mobile phone
- Multiple network connection including Ethernet, LoRa, Wifi, 4G(optional) and Bluetooth
- Using LoRa antenna to expand coverage range
- Support OTA automatic update, stable and reliable



Specification:

System	
CPU	Quad Core Arm Cortex-A55 1.8GHz
Memory	4GB LPDDR4
Storage	64GB eMMC
Clipper Chip	ATECC608
OS	Ubuntu 20.04

Communication

LAN	1 x Gigabit Network
LoRa	1 x LoRa module, support 470MHz, 868MHz and 915MHz
WIFI & BT	1 x WIFI & BT module
4G	1 x 4G module (optional)
GPS	1 x GPS module (optional)

I/O Interfaces

SIM	1 x SIM slot
Button	1 x Bluetooth Pairing Button
LED	1 x System LED, 1 x Status LED
Antennas	1 x LoRa Antenna (4dBi, 1m extension cable, with a strong magnetic chuck), 1 x Wifi Antenna (2.4GHz, 3dBi), 1 x 4G Antenna (optional), 1 x GPS Antenna (optional)
RTC	1 x RTC

Power Supply

Power Input	DC 12V/2A
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Mechanical Structure

Dimension	158 x 117.8 x 26mm
Material	Aluminum alloy
Operating Temp.	0°C~80°C

Certificates:**I/O Interfaces:****Antennas:**

LORA Antenna

**ABOUT POLYHEX**

As a board level and system level designer and manufacturer, Polyhex, with 9-year experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinner and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

