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# Portal A Wireless Gateway

## Overview:

The Portal A is a versatile wireless gateway that offers seamless connectivity and reliable performance. It supports various network options, including Wi-Fi, Gigbat Ethernet, and optional modules like LoRa and 4G. The Portal A is ideal for IoT applications requiring long-range, low-power communication.

## Main Features:

· High-performance Quad Core Cortex-A55 CPU up to 1.8GHz

· Built-in Wi-Fi, Gigbat Ethernet, and optional LoRa, 4G, and GPS modules for diverse network options

· Convenient set-up and easy management using a mobile phone

· Expand coverage range with an optional LoRa antenna

· Support OTA automatic update, stable and reliable

## Specification:

| System | |
|---|---|
| CPU | RK3566, 4 x ARM Cortex-A55, 1.8GHz, comes with an integrated neural processing unit (NPU) that delivers 1TOPS of performance. |
| Memory | 4GB LPDDR4 |
| Storage | 64GB eMMC |
| Clipper Chip | ATECC608 |
| OS | Debian, Ubuntu |

| Communication | |
|---|---|
| LAN | 1 x Gigabit Network |
| LoRa | 1 x LoRa module (optional), 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 Wifi Antenna (2.4GHz, 3dBi), 1 x LoRa Antenna (optional, 4dBi, 1m extension cable, with a strong magnetic chuck), 1 x 4G Antenna (optional), 1 x GPS Antenna (optional) |
| USB | 1 x USB 3.0 |
| RTC | 1 x RTC |
| **Power Supply** | |
| Power Input | DC 12V/2A |
| **Mechanical & Environmental** | |
| Dimension | 158 x 117.8 x 26mm |
| Material | Aluminum alloy |
| Operating Temp. | 0 ~ 70 ℃ |

## Certificates:

## I/O Interfaces:

System LED

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Portal A

BT KEY    Status LED    USB 3.0

DC 12V    LAN    SIM    LORA    4G    GPS    WIFI

## Antennas:

WIFI Antenna

LORA Antenna

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Beyond the Embedded Deployment