

# Portal A Wireless Gateway



## 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, Gigabit 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, Gigabit 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	1) Default: 4GB LPDDR4 (8GB optional) 2) 2GB/4GB/8GB LPDDR4X optional
Storage	64GB eMMC (128GB/256GB optional)
Clipper Chip	ATECC608
OS	Debian, Android, Yocto
Communication	
LAN	1 x Gigabit Network
LoRa	1 x LoRa module (optional), support 470MHz, 868MHz and 915MHz
WIFI & BT	2.4GHz & 5GHz Wi-Fi 6, BT 5.4, external Wi-Fi SMA antenna connector
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
USB	1 x USB 3.0
LED	1 x System LED, 1 x Status LED
Antennas	1 x Wifi Antenna (2.4GHz,3dBi), 1 x LoRa Antenna (optional, 4dBi, 1 m extension cable, with a strong magnetic chuck), 1 x 4G Antenna (optional), 1xGPS Antenna (optional)
RTC	1 x RTC
Mechanical & Environmental	
Material	Aluminum alloy
Dimension	158mm x 107.5mm x 24.5mm (±0.5mm)
Net Weight	348g (±0.5g)
Operating Temp.	0°C to 70°C
Power Supply	
Power Input	DC 12V/2A

Product Compliance and Safety:

CE | FCC

For more information see the Certificates in the DEBIX Knowledge Center.

I/O Interfaces:



## Antennas:



## Safety Instruction:

***To avoid malfunction or damage to this product please observe the following:***

- Disconnect the device from the DC power supply before cleaning. Use a rag. Do not use liquid detergents or spray-on detergents.
- Keep the device away from moisture.
- During installation, put the device on a reliable table. It will be damaged if you drop it.
- Before connecting the power supply, ensure that the voltage is in the required range.
- Put the power cable in place to avoid stepping on it.
- If the device is not used for a long time, power it off to avoid damage caused by sudden overvoltage.
- For safety reasons, the device can only be disassembled by professional personnel.
- Do not place the device in a place where the ambient temperature is below 0℃ or above 70℃. This will damage the machine. It needs to be kept in an environment at controlled temperature.

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