

## Features



- Up to 8 concurrent channels for LoRa transmission
- Built-in 2.4G 802.11b/g/n Wireless LAN
- Various Internet connection: Ethernet, WiFi
- Support LoRaWAN 1.0.3 Basic Station mode and packet forward mode(Switched through local WEB GUI)
- WiFi Configuration through local WEB GUI
- Active scan for channel availability with RSSI levels
- Web UI for LoRa and network configuration
- Support Listen Before Talk for downlink
- Internal antennas for LoRa and WiFi connection

Browan has been instrumental in the development of LPWAN system solutions and is an early provider of LoRaWAN® protocol based, end-to-end LPWAN solutions. The LoRaWAN® technology is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost-effective way for service providers to deploy LoRaWAN® network for sensor applications in vertical market domain.

The **MerryIoT Hub** is specifically designed for wide area IoT applications and very cost-effectively with build-in antenna. Applications include, but not limited to home security, automatic meter reading, monitoring fault indicators, monitoring streetlights, etc. This gateway is a femto type and very suitable for small business or private area use case like parking space, exhibition center or campus etc. It is also suitable for providing coverage for indoor blind spots.

## Specification

|                       |   |
|-----------------------|---|
| Model Name            | WLRRTES-106V2   |
| Product Name          | MerryIoT Hub  |
| Frequency Band        | EU 863~870 MHz / US 902~928 MHz / IN 865~867 MHz / AS 923 MHz |
| Number of Channels    | Up to 8 concurrent channels                                   |
| Wireless LAN          | 802.11 b/g/n 2.4G   |
| WAN Protocol          | LoRaWAN   |
| Modulation            | Based on LoRaWAN  |
| RF Transceiver        | Semtech SX1302  |
| Transmit RF Power     | 0.5W (up to 27 dBm)   |
| Receive Sensitivity   | Down to -140 dBm  |
| Operating Temperature | 0°C ~ 50°C  |
| Storage Temperature   | -10°C ~ 60°C  |
| Power Supply          | 5VDC/2A via Micro-USB port                                    |

## Specification (continues)

|                      |   |
|----------------------|---|
| <b>Antenna Type</b>  | Built-in Wi-Fi and LoRa antenna   |
| <b>Interfaces</b>    | 1 LAN 10/100Mbps, 1 Micro-USB for power input, 4 LED indicators, Reset Button |
| <b>Dimensions</b>    | L:116 x W:91 x H:27 mm  |
| <b>Weight</b>        | 160 g   |
| <b>Security</b>      | AES 128   |
| <b>Type Approval</b> | CE / FCC / IC   |

## SKU Detail

| SKU | Country          | Channels | Frequency Band (MHz) | Wifi 2.4 G channel |
|-----|------------------|----------|----------------------|--------------------|
| US  | USA              | 8        | US915 (902~928)      | 1~11               |
| TW  | Taiwan           | 8        | AS923 (920~925)      | 1~11               |
| JP  | Japan            | 8        | AS923 (920~928)      | 1~13               |
| KR  | Korea            | 8        | KR920 (920-928)      | N                  |
| EU  | Europe           | 8        | EU868 (862~870)      | 1~13               |
| AU  | Australia/Brazil | 8        | AU915 (915~928)      | 1~13               |

\* Samples are also available for IN 865~867 MHz.