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
- Support AWS IoT Core for LoRaWAN
- Ethernet/WiFi Configuration through local WEB GUI
- Active scan for channel availability with RSSI levels
- Web UI for LoRa and network configuration
- Cloud service for gateway health monitor
- 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 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-106
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 SX1308/SX1302
Transmit RF Power	0.5W (up to 27 dBm)
Receive Sensitivity	Down to -140 dBm
Operating Temperature	0ºC ~ 50ºC
Storage Temperature	-10ºC ~ 60ºC
Power Supply	5VDC/2A via Micro-USB port

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Specification (continues)

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

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.

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