LoRaWAN Femtocell AP/Gateway

Model Number: WLRGF-100X321IS

Main Features:

- 1 WAN port(10/100)
- 2.4G dual band wireless 802.11 b/g/n/ac
- Various internet connection: Ethernet, Wireless bridge, 3G/4G dongle
- Built in LoRa antenna and optional external antenna
- Support Listen Before Talk for downlink
- Support repeater mode for last mile coverage
- Web UI for Configuration
- Support OTA and USB upgrade

This Internet of Things (IoT) LoRaWAN Femto Access Point/Gateway is specifically designed for long range wide area applications (LPWAN). Applications include, but not limited to automatic meter reading, monitoring fault indicators, smart street lights, smart parking, smart waste collection, tracking devices, etc'. Typical deployment is using star network configuration similar to mobile network base station. Because of its long range, high penetration and high sensitivity capabilities as well as ability to serve many devices, it provides a much more cost effective way for service providers to deploy a network for sensors and controllers than any other methods (e.g. Cellular, Short range standards, etc')

This gateway is a Femto type and is very suitable for small business or private area use cases like parking spaces, exhibition centers, campuses, buildings, etc'. It is also suitable for providing coverage for indoor blind spots. The gateway supports internet connection through WiFi, Ethernet and optional Celluar. LoRa Antenna, USB cable and RJ45 cable is included in the package

Specification

LoRaWAN Specifications:			
Wireless Freq. Band: 915-917MHz complies with the Israeli MoC spec (other models for EU and US are also available)			
Channels/Bandwidth: 8 / 125KHz each		Modulation:	Based on IEEE 802.15.4g
LoRa RF Chips:	Semtech SX-1301/SX1257	Rx Sensitivity:	Up to -142dBm
Tx Power:	100mW	Antenna Type:	Built-in and optional external
WiFi Specifications – 2.4GHz:			
Wireless Freq. Band:	2400-2483.5MHz	Standards:	IEEE 802.11b/g/n/ac (ETSI EN 300-328 / 300-440)
Tx Power:	100mW e.i.r.p	Antenna Type:	SMA male type
General Specifications:			
Internet Connection: WiFi, 1xWAN, USB A-Type 2.0 for optional Cellular dongle			
Power Supply:	DC 12V/2A	Operation Temp.:	-10ºC ~ 55ºC
Dimensions/ Weight: L:116 x W:91 x H:27mm / 0.18Kg		Certifications:	NCC, FCC