

LoRaWAN Outdoor AP/Gateway

Model Number: WAPS-232NX321IS

Main Features:



- Long Range - Over 15 kilometers radius
- 157 db link budget
- Thousands devices (up to million) depending on data model
- AP can be configured to work in repeater mode for last mile coverage
- Cloud service to support easy deployment
- Cost effective for providing full redundancy coverage

This Internet of Things (IoT) LoRaWAN 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'). Typical wireless sensors networks has difficulty to achieve better than 95% coverage because of wireless blind spots near the edge of the coverage. This product can be configured as last mile repeater to solve this issue. It's a cost effective way to provide full redundancy coverage for the entire service area (local and up to nation-wide). The gateway supports internet connection through WiFi, Ethernet and optional Cellular. It incorporates a GPS and complete antennas kits for LoRaWAN, WiFi and GPS.

Specification

LoRaWAN Specifications:			
Wireless Freq. Band: 915-917MHz complies with the Israeli MoC spec (other models for EU and US are also available)			
Number of Channels/Bandwidth: 6 / 125KHz		Modulation: Based on IEEE 802.15.4g (FSK / CSS)	
LoRa RF Chips: Semtech SX-1301/SX-1257		Rx Sensitivity: -142dBm	
Tx Power: 25/100mW (Depending on used channel)		Antenna Type: N-Type female	
WiFi Specifications – 2.4GHz:			
Wireless Freq. Band: 2400-2483.5MHz		Standards: IEEE 802.11b/g/n (ETSI EN 300-328 / 300-440)	
Tx Power: 100mW e.i.r.p		Antenna Type: N-Type female	
General Specifications:			
Internet Connection: WiFi, Eth (RJ45), Cellular (optional)		GPS: Included, N-Type female, 1575.42GHz	
Enclosure Protection: IP67		Mounting: Mounting kit included	
Supply Voltage: 48V ± 10% (POE adapter)		Operation Temp.: -20°C ~ 60°C	
Dimensions / Weight: L:230 x W:200 x H:68mm / 2.2Kg		Certifications: NCC, FCC, SRRC	