



# LN-300HWX

## WiFi6 Industrial Grade Outdoor Wireless Access Point

### Product Highlights

- IEEE 802.3at standard PoE support
- 4 N-type RF interfaces (2.4GHz×2, 5GHz×2),
- Power consumption 19.4 W
- Chipset: Qualcomm QCA9563 + QCA9887
- 10/100/1000M dual frequency 1200M

LN300HWX is a high-performance and high-speed outdoor 11ax 1800Mbps dual-band AP base station. It adopts the excellent and powerful industrial grade wifi6 Qualcomm chip which supports both 2.4GHz and 5.8GHz dual-band. It equips 1 Gigabit WAN/LAN port, 1 optical port. The maximum wireless transmission data rate could reach up to 1800Mbps which enables more wireless access users simultaneously. It provides a professional, stable, reliable, superior and high-speed wireless coverage solution for security monitoring, public safety, mining, wind power, smart grid, smart city, intelligent transportation and other large scales industrial project etc.

The PCB board is equipped with two independent signal amplifiers (PAs) and LNA as well as an external 8dbi Omni-directional dual-polarized cylindrical antenna. The wireless coverage radius can reach up to 200-300 meters. The wireless coverage distance is farther and stronger. It supports intelligent channel analysis and automatic selection of the best channel to greatly reduce interference and latency that provides more stable and fast wireless network signals.

LN300HWX adopts advanced Wave2 MU-MIMO (multi-user multiple inputs multiple outputs) technologies. Furthermore, It supports 8 spatial streams, 160MHz channel bandwidth as

# PRODUCT PARAMETERS

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Model	LN-300HWX
Chipset	IPQ6000+QCA8075+QCN5052+QCN5022
ROM	512MB DDR3L
FLASH	16MB Nor Flash+128MB NAND Flash
Dimension	245*200*90mm
1xEthernet interface	10/100/1000M, RJ-45 Gigabit Ethernet LAN supports 802.3at POE Power over Ethernet
1xOptical port	10/100/1000M, SFP
1xThe console port	Standard RS232 communication interface, RJ-45
PoE supply	POE/48V0.65A

# WLAN SPECIFICATION

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Working Frequency	Radio I: 11b/g/n : 2.412 ~ 2.484 GHz Radio II: 11ac/a/n : 5.18 ~ 5.24 & 5.26 ~ 5.32 & 5.5 ~ 5.7 & 5.745 ~ 5.825 GHz
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Recommend Frequency	Northern America11, Japan14, Europe13
Wireless Settings	Working mode AP 2.4GWIFI transmission protocol 802.11b/g/n 5GWIFI transmission protocol 802.11 a/n/ac/ax Channel selection (display the number of channels in different regions by country setting) Channel bandwidth (automatic, 20Mhz, 40Mhz 80Mhz 160Mhz)

## Supported Rates

Transmission rate 2.4GHz: only 11n, 11b/g/n mixed, only 11b, 11b/g, only 11g

5GHz: 11n mode only, 11a/n mixed mode, 11a mode only, 11ac mode only, 11ax mode only

2.4G Radio:

802.11b: 1, 2, 5.5, and 11Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps

802.11n HT20/ HT40: MCS0~MCS15 (400/ 800ns GI)

802.11ac VHT20/VHT40: MCS0 ~ MCS9(400/ 800ns GI)

802.11ax HE20/ HE40: MSC0 ~ MCS11(400/ 800ns GI)

# ENVIRONMENTAL PARAMETERS

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Working temperature	-40°C ~ 70°C
Relative humidity	0% ~ 90% (no condensation)
Protection level	IP67
Storage temperature/storage humidity	-40°C ~ 85°C /0%~100%(no condensation)
Lightning protection indicators	10/700 combination wave test, total mode 6kV, differential mode 2kV
Electrostatic protection	Contact discharge 6kV, air discharge 8kV