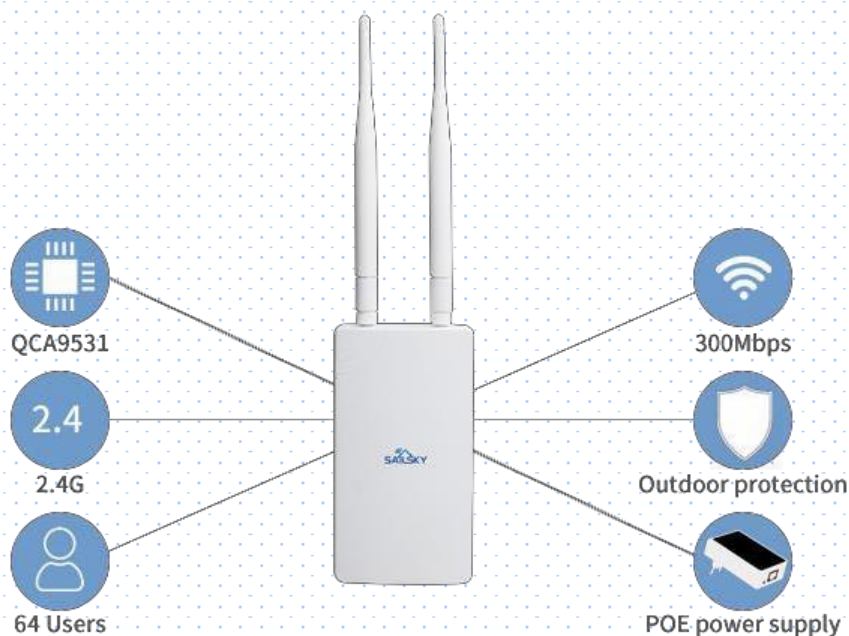


# BL85HW

## Outdoor Wireless Access Point



BL85HW is a high performance, cost-effective outdoor Wireless Access Point. Designed with Qualcomm QCA9531 chipset, 16M flash memory /128M memory, 100 Mbps network interface, output power up to 500mw, support 2.4g 802.11n MIMO technology wireless speed up to 300Mbps, can meet the needs of 32 end users simultaneously. The enclosure is designed with IP65 protection against wind, rain, dust and sun. It can easily adapt to the outdoor extreme environment of high temperature and extreme cold. External 2 \*5dBi omnidirectional antennas, support pole / wall mount installation, and support 48V 802.3at standard POE power supply, flexible power supply, plug and play, high gain, high receiving sensitivity, high bandwidth, high access number, wide wireless coverage range, stable performance, apply to the scenic area, the mountains, streets and other outdoor small and medium-sized wireless coverage scenario.

# BL85HW

## Outdoor Wireless Access Point 2.4GHz 300Mbps

### Product Features:

- ※ High cost-effective hardware configuration

Build-in Qualcomm QCA9531 chipset, industrial grade circuit design,, support IEEE802.11b/g/n protocol, can provide 300Mbps wireless access speed, excellent anti-high and low-temperature design, enhance the user experience in extreme environment.

- ※ 100 Mbps adaptive network interface, support PoE and DC power supply

It provides LAN1/WAN PoE+LAN2 10/100mbps adaptive network interface and supports 48V 802.3at standard PoE remote power supply and 12V/1A local DC power supply. The power supply mode is flexible, which is suitable for various wireless engineering scenarios with inconvenient power supply and reduces the construction cost.

- ※ Energy-efficient Based on the IEEE802.3az standard hardware design

when the network is not used, the device will automatically switch to low power consumption mode. Once a user accesses the network, it will automatically switch to the normal mode operation. The whole process of energy-saving has been preset. It will not affect users, can effectively reduce the power consumption of 30%, save a lot of wireless network operating costs.

- ※ Flexible attachment matching

External RPSMA external thread and internal needle standard SMA connector, outdoor 5dBi omni-directional antenna is attached. Users can also flexibly match other 2.4g band antennas according to different operating environments.

- ※ Stylish compact, simple and flexible installation

Stylish appearance, supports the wall/pole fixed installation mode, flexible installation, greatly reduces the construction difficulty and improves the construction efficiency without affecting the original design.

- ※ IP65 dust-proof and waterproof, suitable for a variety of harsh environments

The enclosure is IP65 rated for outdoor dust, water, and sun protection. It can work normally in extreme environments as low as -30 ° C up to 55 ° C. It can easily adapt to the harsh outdoor environment and ensure the stable operation of the network for 24 hours.

## Hardware

Model	BL85HW
Chipset	Qualcomm QCA9531
CPU Clock Speed	550MHz
Standards	2.4G 300Mbps 802.11b/g/n MIMO Technology
Memory	128MB DDR2 RAM
Flash	16MB

## Hardware

Interface	LAN1/PoE+WAN1 10/100Mbps RJ45
Button	1*Reset Button, Long press to reset, short press to adjust digital display number
Power Consumption	<12W
Power Supply	POE: 48V 0.5A, DC: 12V 1A
working environment	Temperature: -40°C ~ +55°C (operating) , -20°C ~ +70°C (storage) Humidity (no-condensing ) : 5% ~ 90% (operating) , 5% ~ 95% (storage)
Size	172*90*57(mm)
Weight	0.5KG
Toggle switch	Define product AP Mode and Repeater Mode

## Radio frequency Feature

Frequency Range	ISM band: 2.400 ~ 2.4835 GHz
Channel	2G:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Modulation method	OFDM = BPSK, QPSK,16-QAM,64-QAM; DSSS = DBPSK, DQPSK, CCK
Output power	2.4G: 11n @MCS0~2/MCS8~10:27±1dBm @MCS7/MCS15:23±1dBm 11g @6~24M:27±1dBm @54M:23±1dBm 11b @1~11M:27±1dBm

Receiving sensitivity	2.4G: 11n: -86dbm@MCS0 -68dbm@MCS7 -86dbm@MCS8 -64dbm@MCS15 11g: -90dbm@6Mbps -68dbm@54Mbps 11b: -90dbm@1Mbps -85dBm@11Mbps
EVM	802.11n: ≤-29 dB 802.11g: ≤-26 dB 802.11b:
Frequency offset	±20ppm

## Software Feature

Working Mode	Router, Universal Repeater, WISP, AP and Repeater
Users	64
Network	Controller address /DHCP/ static IP
System	Restore factory/system restart