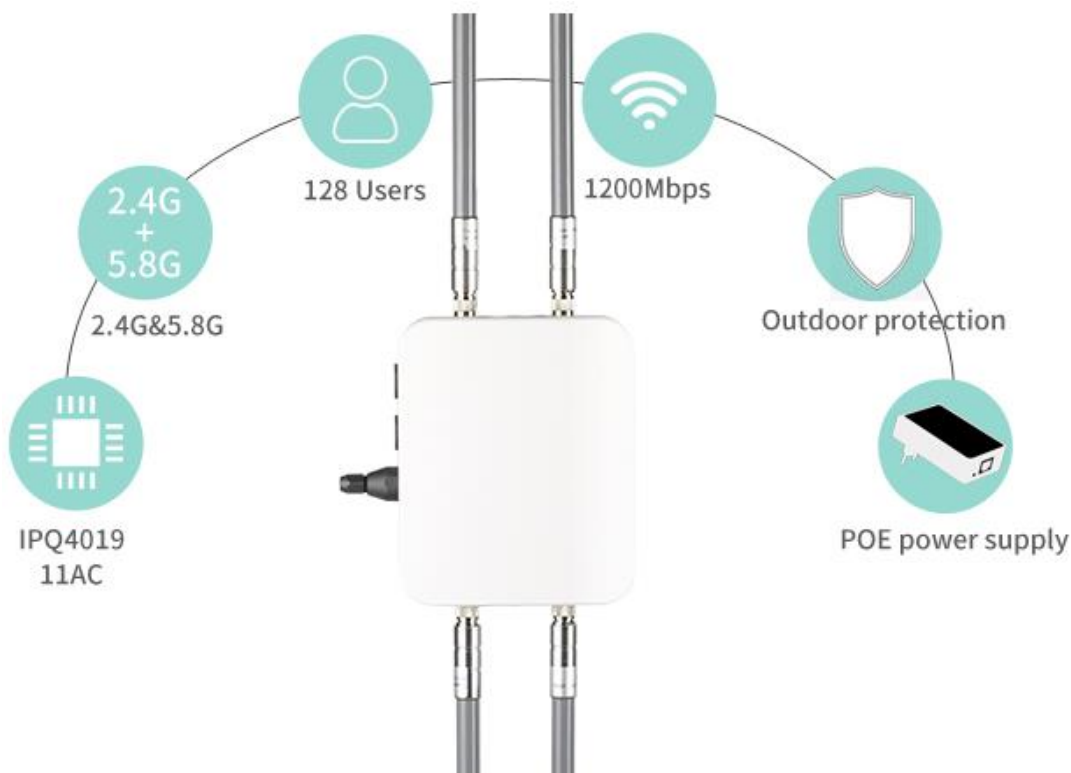


BL290HW

11AC 1200Mbps Dual Band Outdoor Wireless Access Point

BL290HW is a high performance and high-speed 11AC 1200Mbps dual-band 1000mw high-power carrier-grade outdoor wireless access point. It Built-in high-power amplifier and high-gain antennas, comes with the next generation Wi-Fi standard – 802.11ac, 3 times faster than 802.11n speeds and uses a professional industrial-grade Qualcomm chip to delivery a combined extremely fast dual-band wireless data transfer rate of up to 1.2Gbps. (300Mbps over the 2.4GHz band and 867Mbps wireless speeds over the 5.8GHz band), supports multiple devices simultaneously. Four high gain antennas make all of your connections more efficient and stable. LNA (Low Noise Amplifier) of the 5.8GHz wireless band increases the receiving sensitivity to enlarge Wi-Fi coverage. Besides that. It supports MU-MIMO Wave2 technology (Multi-User Multiple Input Multiple Output),8 spatial streams, 160MHz channel bandwidth and 256QAM modulation technologies that enable the highest wireless speed can reach up to 1.2Gbps, You can use it for WiFi Hotspot network coverage in the application scenarios like Airport, hotel, school, hospital, office, supermarket, campus, smart city, etc. It's your superior choice for seamless HD streaming, online gaming and other bandwidth-intensive tasks. Enjoy fast, reliable WiFi connections for gaming and streaming in the best quality.





Product Features

- IEEE 802.11ac standard, complies with IEEE 802.11a/b/g/n WiFi standard.
- Dual-Band Speed up to 2.4GHz 300Mbps, 5GHz 867Mbps.
- Robust IP67 weatherproof case and RJ45 Connector withstand harsh outdoor conditions
- Support IEEE 802.3at 48V Power over Ethernet (PoE) for Flexible Deployment.
- Provides high performance with multiple high gain antennas.
- Features up to 1000mW of power and enhanced receiver design.
- Wi-Fi Security with 802.1X, WAP, and WPA2.

Industry-leading Hardware

It consists of four external antennas with 2.4G and 5.8G dual frequency bands, making it possible to cover hard-to-reach dead zones. It's made of weatherproof and heat-resistant materials to deal with extreme weather.

Super-fast Wireless AC Performance

It comes with next-generation 802.11AC wave2 MU-MIMO Wi-Fi technology, the access point operates on both 2.4GHz and 5.8GHz could reach up to 1200 Mbps. It allows more devices to connect simultaneously which is the superior choice for seamless HD streaming, online gaming and other bandwidth-intensive tasks.

Built-in High Power Amplifiers

It equipped with a large Internal amplifier to improve the quality of the signal. The power amplifier (PA) is used to increase the magnitude of power. On the other hand, the low-noise amplifier (LNA) is designed to minimize additional noise and increase the power of the signal.

Designed to be Powerful

It adopts high power amplifiers and four omnidirectional antennas with two frequency bands which extensively enable strengthen Wi-Fi signal as well as to enlarge wider coverage in the open air to ensure that you can easily access the Internet.

Easy to configure and manage

This high-power wireless access point is specifically designed to provide an effective solution for outdoor wireless networking applications. With its centralized management platform and a high degree of flexibility, it's the ideal choice for providing WiFi Hotspot for outdoor project deployment.

Power Over Ethernet

It has integrated Power over Ethernet (PoE) support, allowing the access point to be installed in areas where power outlets are not readily available.

Easy to Fix and install, Design for Harsh Outdoor Environment

It equipped with excellent industry-leading hardware that could ensure the access point can be deployed in a wide variety of environments, withstanding broad ranges of humidity and temperature (-30°C~70°C) (-22°F~158°F).

Product parameters			
Model	BL290HW		
Chipset	Qualcomm IPQ4019+QCA9886+QCA8075		
RAM	256MB		
Flash	32MB		
Physical Interface	1x10/100/1000 RJ45 Gigabit Ethernet supports 802.3at 48V PoE		
	1*GE SFP combo		
	1* console		
	Power Supply x1	Green	ON : Power ON OFF : Power OFF
	SFP	Green	Active: Blinking To 4019 GPIO_45
	WLAN x1	Green	Link: Solid Light Active: Blinking 5G to 4019 GPIO_48 2.4G to 4019 GPIO_49
Power	POE/48V0.5A		
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		

Wireless specification

Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK	
Working channel	North America 11, Japan 14, Europe 13 5G depends on the country you set up	
Wireless setting	Working mode AP Wireless mode 11ac/11a/11b/ 11g /11n Channel selection (displays the number of channels in different areas by country setting) Channel bandwidth (Auto, 20Mhz, 40Mhz) Transmission rate 2.4GHz: 11n only, 11b/g/n mix, 11b only, 11b/g, 11g only 5GHz: 11n only mode, 11a/n mix mode, 11a only mode, 11ac only mode	
Receiving sensitivity	802.11b -95dBm @ 1Mbps -91dBm @ 11Mbps 802.11g -94dBm @ 6Mbps -78dBm @ 54Mbps 802.11n (2.4GHz) -90dBm @ MCS0 -73dBm @ MCS7 -87dBm @ MCS8 -70dBm @ MCS15	802.11a -94dBm @ 6Mbps -78dBm @ 54Mbps 802.11n (5GHz) -90dBm @ MCS0/HT20 -71dBm @ MCS7 /HT20 -87dBm @ MCS1/HT40 -68dBm @ MCS7/HT40
802.11b	1Mbps-11Mbps	27+/-2 dBm
	6Mbps -9Mbps	27+/-2 dBm
	12Mbps -18Mbps	25+/-2 dBm
	24Mbps -36Mbps	25+/-2 dBm
	48Mbps -54Mbps	25+/-2 dBm
	MCS 0-1 / 8-9	27+/-2 dBm
	MCS 2-3 / 10-11	27+/-2 dBm
	MCS 4-5 / 12-13	27+/-2 dBm
	MCS 6-7 / 14-15	27+/-2 dBm

Software specifications

Status

System status	Current wireless settings	Ap mode, wireless channel/frequency, Layer 2 user isolation, multiple SSID settings
User list	Display the users on the current connection, only the users who are authenticated and connected normally	
System log	Display system triggered log events	

Wireless function list

Operating mode	AP mode
WiFi Protocol	IEEE802.11b/g/n/a/ac MIMO
Channel setting	Manual / Auto (automatically select the best channel)
Transmission rate setting	Manual / Auto
Output power control	User-defined output power in dBm
Power saving mode	Wireless power saving mode is controllable
Multiple SSID support (multiple APs)	Support 2.4G 4 SSID support 5.8G 4 SSID Separate WIFI settings and security settings for each SSID
WEP	WPE(64/128bit)
WPA/WPA2	TKIP/AES
MAC address filtering	Provide 30 MAC address filtering
802.1x certification	MD5/ TLS/ TTLS, PEAP

Software specifications

802.1x support	TTLS, PEAP
LAN port settings	IP (check validity and DHCP server IP range) MAC
DHCP server	DHCP address pool length update time DHCP user list
Multiple SSID VLNA	SSID-based 802.1Q VLAN
Management VLAN (Ethernet VID)	Users can specify VID user management
Tag/ Untag option	Independent VLAN settings can be enabled or disabled
Add a VLAN tag	Any packet entering the device without a VLAN tag will have a VLAN tag inserted into a PVID (Ethernet Port VID)
Backup/restore settings	Backup Current Settings Restore Backup Settings Restore Factory Defaults
QOS management	WMM
Network management	Support management software centralized management
Firmware upgrade	Allows users to save current settings or restore factory defaults due to upgrades
Advanced management	Automatic restart setting
RADIUS account	Support

Environmental and physical parameters

Operating temperature	Operating temperature: -40 ° C ~ 70 ° C Storage temperature: -40 ° C ~ 85 ° C
Humidity	0%~90% typical non-condensing