

BL290Q

11AC 1200Mbps Dual Band Indoor Ceiling Mounted Wireless Access Point



Product Overview

BL290Q is a Qualcomm QCA9563+ QCA9886+QCA8334 Chipset high power industrial Ceiling Wireless Access Point with the next generation 802.11ac Wi-Fi standard, combined 1200Mbps Wi-Fi speed over 2.4GHz(300Mbps) and 5GHz(867Mbps), equipped Gigabit WAN & LAN port, fast Ethernet data rate enables more than 100 end users can access into BL290Q to enjoy seamless HD movies, streaming, online gaming, wireless security, and other bandwidth-intensive tasks, widely be used in school, hospital, hotel, office, shopping mall, etc. Designed in two-line Power Amplifier and Low Noise Amplifier on PCB board, the power can be 800mW high power, 5dBi MIMO high gain antenna, greatly increased the WiFi range and reduced the noise interference. It also supports intelligent channel analysis and automatic selection of optimal channels to reduce interference and delay and provide stable wireless network signals. Dual-band high speed with MU-MIMO Wave2 technology, fit for many environments which request for multiple users access, like airport/ pier/ school/ station/ meeting hall. Also, the BL290Q has integrated IEEE 802.3at standard Power over Ethernet (PoE), can achieve 100+ meters network cable power supply, housed in a stylish ceiling mountable case, for easy installation and lower cost. Based on the CAPWAP protocol, centralized managed by AC controller, plug and play, simple operation, zero-configuration in large quantity installation. What's more, it can access into cloud server for remote management. 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 Feature:

- 1.802.11ac MU-MIMO Wave-2 Technology, faster and more internet access.
- 2.AP supports VLAN management across three layers.
- 3.Support Multi SSID, SSID VLAN isolation.
- 4.Seamless roaming, load balancing.
- 5.Spectrum navigation, 5G priority.
- 6.Separation of business and management IP.
- 7.AP alarm and rescue, AP track.

Product Specification

Model	BL290Q		
Chipset	Qualcomm QCA9563+QCA9886+QCA8075		
Memory	16MB/128MB		
WiFi Protocol	IEEE802.11b/g/n/ac, Wave 2		
Physical Interface	LAN *1 : 10/100/1000 Gigabit Ethernet		
	1*DC Jack		
	WLAN x1	Green	Link: Solid Light Active: Blinking 5G to 4019 GPIO_48 2.4G to 4019 GPIO_49
PoE Power	Support 48V 0.5A 802.3at POE		
Dimension	188*188*40mm		

Wireless specification

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
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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

Wireless specification

802.11b	6Mbps~9Mbps	25+/-2 dBm
	12Mbps~18Mbps	23+/-2 dBm
	24Mbps~36Mbps	23+/-2 dBm
	48Mbps~54Mbps	23+/-2 dBm
	MCS 0-1 / 8-9	23+/-2 dBm
	MCS 2-3 / 10-11	23+/-2 dBm
	MCS 4-5 / 12-13	23+/-2 dBm
	MCS 6-7 / 14-15	23+/-2 dBm
	MCS9	23+/-2 dBm

Software specifications

System Requirements

System Requirements

Windows7,8,10 or MAC OS X (10.4) or above

Management method

WEB IP

Support browser

Microsoft IE 6.0 or above, Firefox 2.0 or above, chrome 8.0 or above

Status

System status

System message

System runtime, device name, wireless MAC address, LAN port MAC address, country, current time, software version

Current IP settings

IP address, subnet mask, default gateway, DHCP, DNS.

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
802.11 mode selection	802.11b/g/n
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

Wireless function list

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

Wireless function list

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
Tag/ Untag option	Independent VLAN settings can be enabled or disabled
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