Product Overview

DA2200 is an Qualcomm Solution 11ac high power industrial use Outdoor access point with tri-band, 2200Mbps Wi-Fi speed (2.4GHz 300Mbps, 5.8GHz 900Mbps, 5.8G 900Mbps), equipped with Gigabit WAN port, fast Ethernet data rate make 200 end users access into it, to enjoy the seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks, useful in high density user access environment.

Main Features

- Comply with IEEE 802.11ac/b/g/n, tri-band, 2200Mbps Data Rate
- 1*10/100/1000Mbps WAN Port, PoE support, water-proof
- 300mW high power, can connect with external antenna for stronger signal strength and more wireless coverage, 32M Flash, 512M DDR3 RAM, more user, more stable
- Support IEEE 802.3at PoE standard
- Support SSID broadcasting, Multi SSID up to 12 (4 SSID in 2.4GHz, 8 SSID in 5GHz)
- Support Gateway (PPPOE, static IP, dynamic IP) , Wireless AP, Repeater, WISP operation mode
- Support DDNS, VPN pass through, Port forwarding and DMZ host

Outdoor shell with Lightning Protection, Temperature Adaptive

DA2200 with metal IP67 level waterproof, dust proof and sunscreen shell, PCB board support Common mode ±6KV Different mode ±2KV lightning protection, which avoid the damage from dust, thunderstorm weather. Meantime, it adaptive to various environment, the working temperature can be normal at -30℃ to 70℃, Suit for any country and any environment.

High Power design, N connector for external antenna, more range and stable signal

Designed in Power Amplifier on PCB board, the power can be 300mW high power, N type water proof connector,can connect with panel/omni outdoor antenna based on request, greatly increase the Wi-Fi range and supply the stable Wi-Fi signal for users.

Power over Ethernet

DA2200 has integrated IEEE802.3at Power over Ethernet (PoE), for easy installation and lower cost. So it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure.

MU-MIMO, Wave2.0 Technology

Comply with Wave2.0 Technology, it adopt 256QAM modulation, support MU-MIMO (Multi-User Multiple-Input Multiple-Output), 8 Spatial Steams, greatly to improved the communication efficiency.
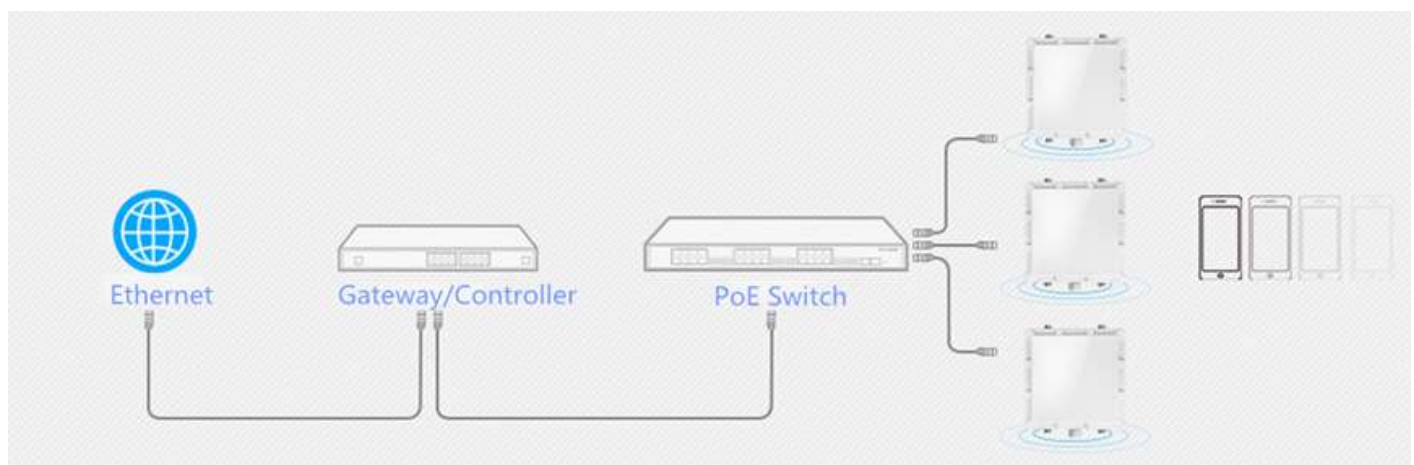
Beamfrorming, DFS, Airtime Fairness, Band Steering, OFDM support

HW-AP2200 support many functions like Beamfrorming, DFS(Dynamic Frequency Selection), Airtime Fairness, Band Steering (5G Prior), OFDM(Orthogonal Frequency Division Multiplexing), RF Power adjustable to improve the performance and Wi-Fi stability.

WLAN Controller Central/Remote Management, Captive Portal support

Work with WLAN controller in wireless AP operation mode, easily realize the central and remote management, like AP status monitor, change IP address, ESSID, Channel, Password, upgrade firmware, backup and restore.

Besides that, it support captive portal authentication like Member/SMS/no authentication login, make this device more professional in Wi-Fi Projects.

Hardware				
Chipset	Qualcomm IPQ4019+QCA9886+QCA8075			
Standard	802.11ac/b/g/n, MU-MIMO technology			
Memory	512MB DDR3 RAM			
Flash	32MB			
Interface	1 * 10/100 /1000Mbps RJ45 WAN Port			
	1 * 10/100 / 1000Mbps RJ45 LAN Port (Inside of shell)			
	1 * Reset button, press 10 seconds to revert to default setting			
Antenna	6 * N type connector, can work with omni/panel antennas			
Power consumption	48V PoE<30W			
Size				
RF Data				
Frequency	2.4G: 802.11b/g/n: 2.4GHz – 2.484GHz			
	5GHz:802.11a/n/ac MIMO: 5.150GHz～5.850GHz			
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM, 128-QAM, 256-QAM			
	DSSS = DBPSK, DQPSK, CCK			
Throughput	2200Mbps			
2.4G RF Power (IPQ4019)	802.11b	11M	23±2dBm	1M	25±2dBm
	802.11g	54M	22±2dBm	6M	24±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	23±2dBm
5G RF Power （IPQ4019）	802.11a	54M	19±2dBm	6M	21±2dBm
	802.11n HT20	MCS7	18±2dBm	MCS0	20±2dBm
	802.11n HT40	MCS7	18±2dBm	MCS0	20±2dBm
	802.11ac HT80	MCS9	17±2dBm	MCS0	19±2dBm
5G RF Power （QCA9886）	802.11a	54M	19±2dBm	6M	21±2dBm
	802.11n HT20	MCS7	18±2dBm	MCS0	20±2dBm
	802.11n HT40	MCS7	18±2dBm	MCS0	20±2dBm
	802.11ac HT80	MCS9	17±2dBm	MCS0	19±2dBm
2.4G Receive Sensitivity	802.11b	11M	-85dBm	1M	-94dBm
	802.11g	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
5G Receive Sensitivity	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
	802.11ac HT80	MCS9	-58dBm	MCS0	-85dBm
EVM	2.4G EVM: 802.11b: ≤-10 dB; 802.11g: ≤-25 dB; 802.11n: ≤-28dB 5G EVM: 802.11a: ≤-25 dB; 802.11n: ≤-28 dB; 802.11ac: ≤-32 dB			
PPM	±20ppm			
Max Users	256			

Firmware Features	
Operation mode	Wireless AP, Gateway, WISP, WiFi Repeater
WAN Type	Dynamic IP/Static IP/PPPoE/L2TP(Dual Access) /PPTP(Dual Access)
Wireless Security	64/128-bit WPA / WPA2(PSK/AES) encryption
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)
Firewall	IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
Others	
Package Contents	2200Mbps Dual Band wireless access point Ethernet Cable Quick Installation Guide Setting Accessory
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Environment	Operating Temperature: -20~55 ℃ Limit working temperature: -30~70 ℃ Storage Temperature: -40~70 ℃ Humidity: 5%~95% non-condensing
Management	Firmware GUI , Remote Management, WLAN Controller, Cloud Management System

APPLICATIONS