11ac 1200Mbps High Power Outdoor WiFi Bridge

Model: G-AP-CPE-8K

Description:

This is a high power outdoor WiFi bridge, comply with the next generation 802.11ac Wi-Fi standard, 2x2 MIMO technology, 2.4GHz and 5GHz dual band, 1200Mbps data rate, Gigabit WAN/LAN port; With water-proof case, high gain 14dBi WiFi antenna and PoE(Power over Ethernet), it is installed in outdoor environment to reach 3KM PTP/PTMP WiFi range, very good choice in long range data transmission or Wireless security.
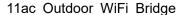
ABS weather-proof case

With ABS waterproof, dust proof and sunscreen shell, avoid the damage from dust, rainy weather. Meantime, it adaptive to various environment, the working temperature can be at -40℃ to 55℃. Suit for any country.

High Power, High Gain Antenna, more WiFi Range

Designed in two line Power Amplifier on PCB board, the power can be 500mW high power, build in dual band panel WiFi antenna, the PTP/PTMP WiFi range more than 3KM.

Power over Ethernet

It has integrated active 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. Pls note, the default is 48V IEEE 802.3at PoE, 24V Passive PoE is possible by change PCB board.

Multiple Operation Mode

It supports wireless AP, Gateway, WISP, WiFi Repeater operation mode, max to meet with different operation request.

Main Features:

- Comply with IEEE 802.11ac/b/g/n, dual band, 1200Mbps Data Rate
- 1*10/100/1000Mbps WAN Port,   1*10/100/1000Mbps LAN Port
- 500mW high power, Qualcomm Chipset, 16M Flash, 128M DDR2 RAM, more user, more stable
- Support 48V active PoE, work with IEEE 802.3at standard PoE switch or 48V PoE adapter.
- Support SSID broadcasting, Multi SSID up to 8 (4 SSID in 2.4GHz, 4 SSID in 5GHz), support tag VLAN based on SSID to protect the whole data safety.
- Support Gateway (PPPOE, static IP, dynamic IP) , Wireless AP, Repeater, WISP operation mode
- With function of firewall, IP filter, URL filter and MAC filter
- Comply with IEEE 802.3az standard, RF power adjustment and frequency analyzer for better application in different environment
- Support DDNS, VPN pass through, Port forwarding and DMZ host
- Support 64/128-bit WEP security, 128bit WPA (TKIP/AES) security
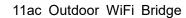
Product Spec.:

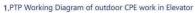| Hardware:	
Chipset	Qualcomm QCA9563 + QCA9882 +QCA8334
Standard	802.11ac/b/g/n, MIMO technology
Memory	128MB DDR2 RAM
Flash	16MB
Interface	1 * 10/100/1000Mbps RJ45 WAN Port, WAN port support IEEE 802.3at standard PoE
	1 * 10/100/1000Mbps RJ45 LAN Port
	1 * Reset button, press 15 seconds to revert to default setting
Antenna	Build in Panel antenna, 12dBi in 2.4GHz, 14dBi in 5.8GHz
Power consumption	48V PoE<30W
Size	315mm * 145 mm * 80 mm
RF Data	
Frequency	2.4G: 802.11b/g/n; 5GHz: 802.11a/n/ac
	2.4GHz: 2.312GHz to 2.4835GHz 5GHz: 5.020 - 6.1000 GHz
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM
	DSSS = DBPSK, DQPSK, CCK

Data Rate	1200Mbps (2.4G 300Mbps, 5.8G 900Mbps)
Receive Sensitivity & RF Power	

RF Power	2.4G: 11n @MCS7:23±2DB, @MCS0:25±2DB.
	          11g @54M:24±2DB, @6M:26±2DB.
	          11b @11M:26±2DB, @1M:28±2DB.
	5.8G: 11a @54M:24±2DB, @6M:26±2DB.
	          11n @MCS7:22±2DB, @MCS0:24±2DB.
	          11ac @MCS9:21±2DB, @MCS0:23±2DB.

Receive Sensitivity	2.4G: 11n: -70dbm@MCS7, -88dbm@MCS0.
	          11g: -72dbm@54Mbps, -88dbm@6Mbps.
	          11b: -85dbm@11Mbps, -94dbm@1Mbps.
	5.8G: 11a: -72dbm@54Mbps, -90dbm@6Mbps.
	          11n: -70dbm@MCS7, -90dbm@MCS0.
	          11ac:-60dbm@MCS9, -86dbm@MCS0.

EVM	11n: ≤-28 DB 11g: ≤-25 DB 11b: ≤-10 DB 11a: ≤-25 DB
PPM	±20ppm
Max Users	128
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 WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK, 802.1x encryption
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
Others:	
Package Contents	1200Mbps 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: -40~55 ℃, Storage Temperature: -40~70 ℃ Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing
Management	Firmware GUI , Remote Management, WLAN Controller, Cloud Management System

Application:
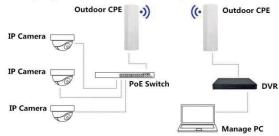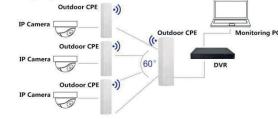
1.PTP Working Diagram of outdoor CPE work in Elevator

2.PTP Working Diagram of Outdoor CPE work with Multiple IP Camera

3.PTMP Working Diagram of Outdoor CPE work with IP Camera

4.PTMP Working Diagram of Outdoor CPE work with Multiple IP Camera

5.PTP Working Diagram of Outdoor CPE applied to Wireless Coverage