



Description

HW-AP80 is an Atheros Solution 11ac high power industrial use Outdoor CPE with the next generation 802.11ac Wi-Fi standard, combined 1200Mbps Wi-Fi speed over 2.4GHz(300Mbps) and 5GHz(900Mbps), equipped with Gigabit WAN port, Gigabit Ethernet data rate allowing for greater than 100 end users to access the Internet. Users can enjoy seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks.

Rugged metal waterproof enclosure

HW-AP80 with metal waterproof, dust proof and sunscreen shell, avoiding the damage from dust, thunderstorm weather. It is designed to work in various environment. The working temperature can be from -40°C to 70°C. This allows for operation in most any country.

High Power design, SMA connector for external antenna

Designed with two(2x2) or three(3x3) in-line Power Amplifier on PCB board. The transmit power can be set up to 1000mW high power in 2x2 or 500mW in 3x3 mode., 4/6 PCS SMA connectors are used to connect Panel or Omni antennas. Depending on the coverage area, these antennas can be changed on request. The correct antenna selection can greatly increase the Wi-Fi range and supply a stable Wi-Fi signal.

Power over Ethernet

HW-AP80 has integrated support for IEEE802.3at Power over Ethernet (PoE), which allows for easy installation and lower cost. it can be installed in areas where power outlets are not readily available by using the Ethernet cable to supply the power.

Main Features:

- Comply with IEEE 802.11ac/b/g/n, dual band, 1200Mbps Data Rate
- 1 10/100/1000Mbps WAN Port · Gigabit Ethernet.
- 1000mW/500mW high power with external antenna for stronger signal strength and better wireless coverage,
- 16M Flash, 128M DDR2 RAM (lots of memory for more connections and more users)
- Support IEEE 802.3at PoE standard (Power over Ethernet)
- Support SSID broadcasting, Multi SSID up to 8 (4 SSID in 2.4GHz, 4 SSID in 5GHz)
- Support (static IP, dynamic IP) for Wireless AP I With function of build in firewall, IP filter, URL filter and MAC filter
- Comply with IEEE 802.3az standard, beamforming technology, RF power adjustment and frequency analyzer for better application in different environment
- Support 64/128-bit WEP security, 128bit WPA (TKIP/AES) security

Kloudspot Management System

This AP works with the Kloudspot management system allowing easy access to advanced network settings with a standard browser. This allows for AP status monitoring, IP address settings, ESSID, transmit channel, and many other features. Since it is cloud based, it is easy to manage the AP from any location worldwide.

SPECIFICATION

Hardware

Chipset:	Atheros QCA9563 + QCA9882 +QCA8334
Standard:	802.11ac/b/g/n, MIMO technology
Memory:	128MB DDR2 RAM
Flash:	16MB
Interface:	1 * 10/100 /1000Mbps RJ4! WAN Port 1 * Reset button, press 15 seconds to revert to default setting
Antenna:	4 or 6 PCS SMA connector
Power consumption:	48V PoE<30W
Weight:	4KGS

RF Data

Frequency:	2.4G:802.11b/g/n: 5GHz: 802.11a/n/ac 2.4GHz,5GHz
Country code:	FCC,IC,ETSI,MKK,M KK1,MKK2,MKK3、 NCC,RUSSIAN,CN
Modulation:	OFDM = BPSK,QPSK, 16- QAM, 64-QAM DSSS = DBPSK, DQPSK, CCK
Throughput:	1200 Mbps

Firmware Features

Operation mode:	Wireless AP, AP+Gateway
WAN Type:	Dynamic IP/Static
Wireless Security:	64/128-bit WEP, WPA / WPA2, WPA- PSK/ WPA2-PSK encryption
SSID:	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)

Receive Sensitivity & RF Power

Frequency	Mode	Data Rate	Standard	Result(dBm)			RF Power (±1.0dBrr)
				CH1	CH6	CH11	
2.4GHz:	11b	1Mbps	≤-83	-99	-99	-99	29dBm
		11Mbps	≤-76	-92	-92	-92	
	11g	6Mbps	≤-85	-95	-95	-95	29dBm
		54Mbps	≤-68	-82	-82	-82	
	11n HT20	MCS0/8	≤-85	-95	-95	-95	28dBm
		MCS7/15	≤-67	-79	-77	-78	
11n HT40	MCS0/8	≤-82	-93	-93	-93	28dBm	
	MCS7/15	≤-64	-75	-75	-75		
5GHz:	11a	6Mbps	≤-85dBm	-92	-92	-92	26dBm
		54Mbps	≤-68dBm	-75	-75	-75	
		MCS0/8	≤-85dBm	-91	-91	-91	
	11n HT20	MCS7/15	≤-64dBm	-72	-72	-72	23dBm
		MCS0/8	≤-82dBm	-88	-88	-88	
	11n HT40	MCS7/15	≤-61dBm	-70	-70	-70	23dBm
		MCS0	≤-82	-92	-92	-92	
	11ac HT20	MCS8	≤-60	-70	-70	-69	23dBm
		MCS0	≤-79	-90	-89	-89	
	11ac HT40	MCS9	≤-60	-66	-65	-65	22dBm
		MCS0	≤-79	-87	-87	-87	
	11ac HT80	MCS9	≤-54	-62	-61	-61	21dBm
MCS0		≤-79	-87	-87	-87		

Firmware Features

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Wireless Security:	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
SSID:	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)

Others

Package Contents:	1200Mbps Dual Band wireless access point Ethernet Cable Quick Installation Guide Setting Accessory
Environment:	Operating Temperature: 0~40 °C (32 ~104°F) Storage Temperature: -40~70 °C Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing
Management:	Firmware GUI, Kloudspot Management System