

Product Specification Sheet

Model: APH6-AX5400

WiFi 6

5400Mbps Gigabit Port Outdoor AP
With SFP Port + Dual Gigabit Ethernet

300-500m
WiFi large coverage

200+
256+ devices
connection

360°
Omni-directional
Wi-Fi coverage

MossLink

1. Model and Version

Model: APH6-AX5400

Version: V1.0

2. Product Overview and Features

Product Overview

The APH6-AX5400 is a high-performance dual-band WiFi6 product that can provide dual-band wireless services at 2.4GHz and 5GHz, with a total of 6 streams, 2×2 (2.4GHz) +4×4 (5GHz). The 2.4GHz offers a maximum access rate of 574Mbps. 5GHz offers a maximum access rate of 4804Mbps. The total rate is nearly 5400Mbps, suitable for high-density scenarios, and it has been tested to support 200 users.

Product characteristics

- It features better transmission quality, higher transmission rate, and the concurrent rate can reach up to 5400Mbps.
- It adopts the IPQ5018 chip, which greatly expands the user capacity and can support 200 users. The heat sink adopts a snap-fit structure design and surface nano-coating treatment, providing a more ideal heat dissipation effect.
- The radio frequency adopts high-power FEM, featuring stable performance, wide wireless coverage and longer transmission distance.
- The built-in lightning protection design greatly enhances the protection capability of the equipment.
- All-metal casing design, with a protection grade of IP67.

3. Technical Parameters

Specification parameters

Product model	APH6-AX5400				
CPU	IPQ5018+QCN9024+QCA8337				
Flash	SPI NOR 8MB, Nand 128MB				
DDR3L	512MB×1				
2.4GHz Working frequency band	2.4GHz ~ 2.484GHz				
2.4GHz WIFI Transmission protocol	802.11b / g / n / ax				
5GHz Working frequency band	5.150GHz ~ 5.850GHz				
5GHzWIFI Transmission protocol	802.11a/ n / ac /ax				
Antenna 2.4GHz	2pcs 2.4GHz and 5GHz omnidirectional antennas, each with a gain of 6dBi				
Antenna 5GHz	Two 5GHz antennas, each with a gain of 6dBi				
Maximum rate	The 2.4GHz provides a maximum access rate of 574Mbps, and the 5GHz provides a maximum access rate of 4804Mbps				
Maximum support for wireless access	200				
2.4G wireless power	802.11b	11M	22±2dBm	1M	22±2dBm
	802.11g	54M	21±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	21±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	21±2dBm
	802.11ax HE40	MCS11	19±2dBm	MCS0	21±2dBm
5G wireless power	802.11a	54M	21±2dBm	6M	23±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	22±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
	802.11ac VHT20	MCS9	20±2dBm	MCS0	22±2dBm
	802.11ac VHT40	MCS9	19±2dBm	MCS0	21±2dBm
	802.11ac VHT80	MCS9	19±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	19±2dBm	MCS0	21±2dBm

	802.11ax HE40	MCS11	18±2dBm	MCS0	21±2dBm
	802.11ax HE80	MCS11	18±2dBm	MCS0	20±2dBm
	802.11ax HE160	MCS11	17±2dBm	MCS0	20±2dBm
2.4G Receiving sensitivity	802.11b	11M	-87dBm	1M	-94dBm
	802.11g	54M	-75dBm	6M	-88dBm
	802.11n HT20	MCS7	-75dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-64dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-61dBm	MCS0	-88dBm
5G Receiving sensitivity	802.11a	54M	-75dBm	6M	-90dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-61dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-56dBm	MCS0	-88dBm
	802.11ax HE160	MCS11	-54dBm	MCS0	-86dBm
2.4GHz EVM	802.11b: ≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n: ≤-28dB ; 802.11ax: ≤-35 dB				
5GHz EVM	802.11a: ≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB				
Frequency offset (ppm)	±20ppm				
Interface (SFP)	1 个 10/100/1000Mbps SFP 光口				
Interface (WAN)	1 个 10/100/1000Mbps 自适应 WAN 口, 支持 PoE 48V 输入				
External button	Reset key (Press and hold for 6 to 10 seconds to restore the factory default configuration)				
Status indicator light	WiFi: When either 2.4G or 5G is turned on (green constantly on, data transmission and reception, flashing, WiFi off, off) WAN: Gigabit WAN port indicator light (green, off when not connected, constantly on when connected, data transmission and reception flashing) SFP: Gigabit SFP port indicator light (green, off when not connected, constantly on when				

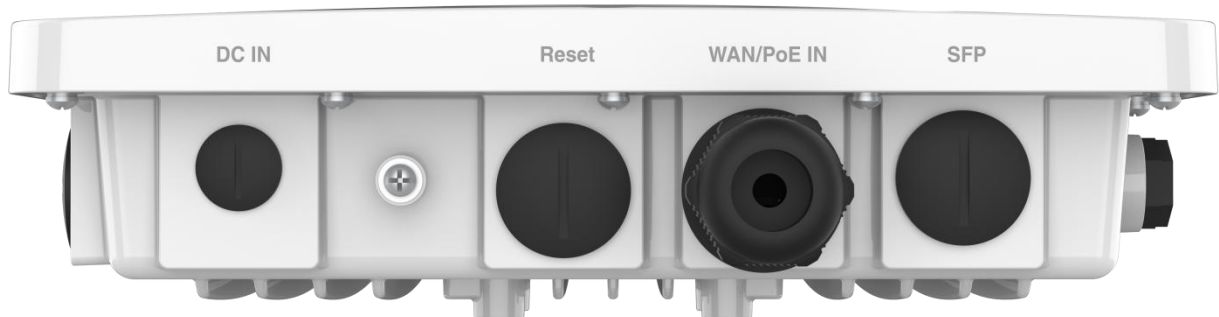
	connected, data transmission and reception flash) SYS: System light, flashing when the system is normal PWR: Power indicator light (green, constantly on when powered;) It went out without electricity.
Power supply	DC2.0 12V/2A, PoE 802.3at
Maximum power consumption	<22W
Product size	243.2mm × 218.3mm × 68.3mm
Weight	1.9kg
Working environment	Normal operating temperature :-40°C to 70°C Storage temperature: -40°C to 70°C Humidity: 5% - 95% (no condensation.)
Protection grade	IP67
ESD	Air discharge +/-15K, contact discharge +/-8K
Surge	Common mode 4K, differential mode 2K

4. Software function

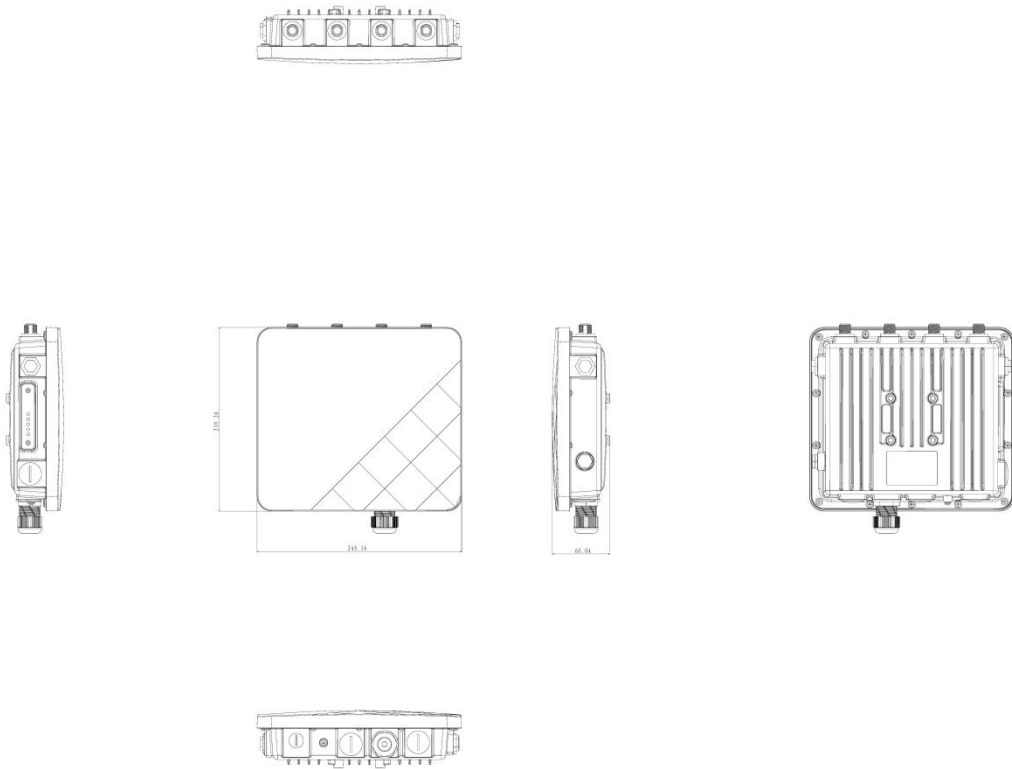
Home Page	Working modes: Fat AP mode and thin AP mode
	Wireless AP download rate, wireless AP upload rate, running time
	Device information, device description, internal network information, WIFI information
Support mode	Gateway mode: After the device connects to the wide area network through the WAN port, it accesses the Internet using static IP,DHCP or PPPoE, etc
	AP mode: The device covers other clients and devices with wireless network signals and connects to other routers via Ethernet to access the wide area network
Wireless function	SSID Broadcasting
	SSID quantity: 4 (2.4GHz) +4 (5GHz), supports Chinese SSID
	Hide the SSID function
	Wireless encryption: OPEN, WPA/WPA2PSK-TKIPAES, WPA3PSK-AES
	Wireless MAC address filtering: Supports whitelist
	WiFi timed off function
	User isolation: Isolation between wireless networks, isolation within aps
	Transmission power setting
	Limit on the number of wireless clients
QoS: WMM	

Network function	Connection method: Static address, obtained from the management server or the gateway
	DHCP server: It can be an internal DHCP server or an external DHCP server
	Cloud platform server
	Firewall function
	PPPoE function: Supports PPPoE dial-up function
Equipment Management	Backup configuration information
	Restore configuration information
	factory data reset
	Restart includes scheduled restart and immediate restart
	Firmware upgrade
	Time management includes system display time and time synchronization
	System Log
	Fat and thin AP switching function

Interface diagram



Product size drawing



5. Attachment list

Host *1

L-shaped fixed frame *1

U-shaped back clip *2

Screw package *1

Waterproof head *3

Instruction Manual *1

Certificate of conformity and warranty card *1