WiFi 7 10Gbps Ceiling Wireless AP

Model: AP-6000-AP-O-6-P-ANT-21



Short Specification

AP-6000-AP-O-6-P-ANT-21 is a high-performance, high-speed WiFi7 indoor tri-band outdoor AP, which can provide 2.4GHz, 5GHz, 6GHz tri-band wireless services, a total of 8 streams, 4×4 (2.4GHz) + 2× 2 (5GHz) + 2×2 (6GHz), 2.4GHz provides a maximum access rate of 1148Mbps, 5GHz provides a maximum access rate of 2882Mbps, and 6GHz provides a maximum access rate of 5764Mbps. The total rate is nearly 10Gbps, suitable for high-density scenarios, and the actual test supports 384 users.

Main Features:

- Supports 320MHz channel.
- Supports 4096QAM, further improving transmission efficiency.
- Supports MLO (Multi-Link Operation) multi-link connection function, multi-frequency concurrency, providing a better user experience.
- Supports 10Gbps fiber optic interface and network interface at the same time, giving full play to device performance.
- Supports both PoE (802.3bt) power supply, making installation and deployment more convenient.
- Outdoor metal housing, IP65

Hardware Specification

Chipset	APH6-BE880-5262				
Standard	IPQ9574+QCN5024+QCN9274+AQR113C+QCA8081				
Flash	Nand 128MB				
DDR4	512MB×2				
2.4G Frequency	2.4GHz - 2.484GHz				
2.4G Wi-Fi standard	802.11b/g/n/ax				
5G Frequency	5.150GHz ~ 5.850GHz				
5G Wi-Fi Standard	802.11 a/n/ac/ax/be				
6G Frequency	5.925GHz ~ 7.125GHz				
6G Wi-Fi Standard	802.11 a/n/ac/ax/be				
Antenna	External antenna 4pcs: 2x6dBi dual band (2.4G+5G), 2x6dBi(6G)				
Data Rate	2.4GHz: 1148Mbps, 5GHz: 2882Mbps, 6GHz: 5764Mbps				
End Users	384				
2.4GHz Tx Power	802.11b	11M	22±2dBm	1M	23±2dBm
	802.11g	54M	21±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	23±2dBm
	802.11ax HE20	MCS11	18±2dBm	MCS0	23±2dBm
	802.11ax HE40	MCS11	18±2dBm	MCS0	23±2dBm
5GHz Tx Power	802.11a	54M	20±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	22±2dBm

	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
	802.11ac VHT20	MCS7	19±2dBm	MCS0	22±2dBm
	802.11ac VHT40	MCS7	18±2dBm	MCS0	22±2dBm
	802.11ac VHT80	MCS9	18±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	18±2dBm	MCS0	22±2dBm
	802.11ax HE40	MCS11	18±2dBm	MCS0	22±2dBm
	802.11ax HE80	MCS11	18±2dBm	MCS0	22±2dBm
	802.11ax HE160	MCS11	18±2dBm	MCS0	21±2dBm
	802.11be EHT20	MCS13	18±2dBm	MCS0	22±2dBm
	802.11be EHT40	MCS13	18±2dBm	MCS0	22±2dBm
	802.11be EHT80	MCS13	18±2dBm	MCS0	22±2dBm
	802.11be EHT160	MCS13	17±2dBm	MCS0	22±2dBm
6GHz Tx Power	802.11a	54M	20±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	22±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	22±2dBm
	802.11ac VHT20	MCS7	18±2dBm	MCS0	22±2dBm
	802.11ac VHT40	MCS7	17±2dBm	MCS0	22±2dBm
	802.11ac VHT80	MCS7	18±2dBm	MCS0	21±2dBm
	802.11ax HE20	MCS11	18±2dBm	MCS0	22±2dBm
	802.11ax HE40	MCS11	16±2dBm	MCS0	21±2dBm
	802.11ax HE80	MCS11	16±2dBm	MCS0	21±2dBm
	802.11ax HE160	MCS11	16±2dBm	MCS0	20±2dBm
	802.11be EHT20	MCS13	16±2dBm	MCS0	22±2dBm
	802.11be EHT40	MCS13	15±2dBm	MCS0	21±2dBm
	802.11be EHT80	MCS13	15±2dBm	MCS0	21±2dBm
	802.11be EHT160	MCS13	16±2dBm	MCS0	20±2dBm
	802.11be EHT320	MCS13	14±2dBm	MCS0	21±2dBm
2.4GHz receiving sensitivity	802.11b	11M	-87dBm	1M	-95dBm
	802.11g	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-86dBm
	802.11ax HE20	MCS11	-63dBm	MCS0	-92dBm
	802.11ax HE40	MCS11	-60dBm	MCS0	-89dBm
5GHz receiving	802.11a	54M	-72dBm	6M	-90dBm

sensitivity	802.11n HT20	MCS7	-68dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-86dBm
	802.11ac VHT20	MCS7	-65dBm	MCS0	-88dBm
	802.11ac VHT40	MCS7	-58dBm	MCS0	-86dBm
	802.11ac VHT80	MCS9	-58dBm	MCS0	-84dBm
	802.11ax HE20	MCS11	-60dBm	MCS0	-90dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-54dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-51dBm	MCS0	-82dBm
	802.11be EHT20	MCS13	-54dBm	MCS0	-86dBm
	802.11be EHT40	MCS13	-52dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-50dBm	MCS0	-82dBm
	802.11be EHT160	MCS13	-48dBm	MCS0	-80dBm
6GHz receiving sensitivity	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-68dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-88dBm
	802.11ac VHT20	MCS7	-65dBm	MCS0	-88dBm
	802.11ac VHT40	MCS7	-58dBm	MCS0	-86dBm
	802.11ac VHT80	MCS7	-56dBm	MCS0	-84dBm
	802.11ax HE20	MCS11	-60dBm	MCS0	-90dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-54dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-52dBm	MCS0	-82dBm
	802.11be EHT20	MCS13	-54dBm	MCS0	-86dBm
	802.11be EHT40	MCS13	-52dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-50dBm	MCS0	-82dBm
	802.11be EHT160	MCS13	-48dBm	MCS0	-80dBm
	802.11be EHT320	MCS13	-46dBm	MCS0	-78dBm
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, 802.11be: ≤-38 dB
6GHz EVM	802.11a: ≤-25 dB ;802.11n: ≤-28 dB ;802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB, 802.11be: ≤-38 dB
ppm	±20ppm
WAN	1 * 10G WAN Port, support 802.3bt PoE input
SFP+	1 * 10G SFP+ Fiber Port
Reset	1 * Reset button, press 10 seconds to revert to default setting
Power supply	PoE 802.3bt
Max Power Consumption	<36W
LED	Power: Green, SYS: Green, WAN: Green, SFP: Green, WIFI: Green
Size	243mm x 218mm x 67mm
Weight	3.9kg
Temperature	Working: -10°C to 550°C ; Storage: -40°C to 70°C ; Humidity: 5 % ~ 95 % (Non-Condensing)
ESD	Air:±8K, Touch:±6K
Electrical Surge	Common Mode: 4K, Differential Mode: 2K

Firmware Specification

Working Mode	Gateway, AP
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5GHz: 4; 6GHz: 4
	Support SSID hidden
	Support seamless roaming, 802.11kvr standard.
	Support 5G Prior for a faster Ethernet.
	Wireless Security: OPEN, WPA/WPA2PSK-TKIPAES, WPA3PSK-TKIPAES
	Support MAC filter
	Support Wi-Fi time on/off to save energy
	Support client isolation to improve the wireless stability
	Support RF power adjustable, adjust the RF power based on environment.
	Support user quantity limited, Max 64 users to access each band.
Networking Function	VLAN settings
	Cloud access support in gateway mode
Device Management	Back-up the configuration

	Restore the configuration
	Reset to factory default
	Reboot the device: including time reboot or reboot immediately
	Admin management password modify
	Firmware upgrade
	System log
	Support firmware GUI web management, AC controller management, remote management and cloud management

Packing List

AP	1
Lan cable	1
Mounting Accessories	1
Gift Box	1
Antenna	4