Model: AP-6000-B-O-18-P-ANT-21



Overview:

AP-6000-B-O-18-P-ANT-21 is a high-performance, high-speed industrial-grade long-distance Wi-Fi 7 wireless bridge. It operates on dual bands (5GHz + 6GHz) with link aggregation to deliver an extreme bandwidth experience.

Features:

- 2×5G + 2×6G link aggregation, supporting up to 10G wireless data rate.
- Built-in dual-band flat-panel Wi-Fi antenna design with 23dBi high-gain antenna, supporting transmission distances up to 20km.
- Die-cast bottom case with IP67 protection, enhancing product reliability in harsh environments.
- Supports 802.3bt power supply; industrial-grade Phoenix terminal 48V DC power supply with automatic polarity reversal.
- Supports SFP+ fiber interface and 802.3af PoE output.
- Supports VLAN passthrough, 4K jumbo frame transmission, and multicast acceleration.
- Built-in GPS module + GPS antenna, supports optional Bluetooth.

Hardware:

Chipset	AP-6000-B-O-18-ANT-21				
Standard	IPQ5322+QCN6274+QCA8386				
Flash	Nand 128MB				
DDR4	1024MB				
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 ax / be				
Antenna	Built-in 23dBi dual-band antenna, Built-in GPS antenna				
Data Rate	5GHz: up to 4323Mbps; 6GHz: up to 5764Mbps				
5GHz Tx Power	802.11a	54M	20±2dBm	6M	22±2dBm
	802.11n HT20	MCS7	19±2dBm	MCS0	22±2dBm
	802.11n HT40	MCS7	19±2dBm	MCS0	22±2dBm
	802.11ac VHT20	MCS9	19±2dBm	MCS0	22±2dBm
	802.11ac VHT40	MCS9	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	17±2dBm	MCS0	21±2dBm

	802.11ax HE160	MCS11	17±2dBm	MCS0	21±2dBm
	802.11be EHT20	MCS13	17±2dBm	MCS0	22±2dBm
	802.11be EHT40	MCS13	17±2dBm	MCS0	22±2dBm
	802.11be EHT80	MCS13	16±2dBm	MCS0	21±2dBm
	802.11be EHT160	MCS13	16±2dBm	MCS0	21±2dBm
6GHz Tx Power	802.11ax HE20	MCS11	16±2dBm	MCS0	20±2dBm
	802.11ax HE40	MCS11	16±2dBm	MCS0	19±2dBm
	802.11ax HE80	MCS11	16±2dBm	MCS0	19±2dBm
	802.11ax HE160	MCS11	16±2dBm	MCS0	19±2dBm
	802.11be EHT20	MCS13	16±2dBm	MCS0	20±2dBm
	802.11be EHT40	MCS13	15±2dBm	MCS0	19±2dBm
	802.11be EHT80	MCS13	15±2dBm	MCS0	19±2dBm
	802.11be EHT160	MCS13	15±2dBm	MCS0	19±2dBm
	802.11be EHT320	MCS13	14±2dBm	MCS0	19±2dBm
5GHz Rx Sens	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-69dBm	MCS0	-87dBm
	802.11n HT40	MCS7	-67dBm	MCS0	-84dBm
	802.11ac VHT20	MCS7	-64dBm	MCS0	-87dBm
	802.11ac VHT40	MCS7	-58dBm	MCS0	-84dBm
	802.11ac VHT80	MCS9	-56dBm	MCS0	-81dBm
	802.11ax HE20	MCS11	-57dBm	MCS0	-87dBm
	802.11ax HE40	MCS11	-54dBm	MCS0	-84dBm
	802.11ax HE80	MCS11	-51dBm	MCS0	-81dBm
	802.11ax HE160	MCS11	-48dBm	MCS0	-78dBm
	802.11be EHT20	MCS13	-51dBm	MCS0	-87dBm
	802.11be EHT40	MCS13	-48dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-45dBm	MCS0	-81dBm
	802.11be EHT160	MCS13	-42dBm	MCS0	-78dBm
6GHz Rx Sens	802.11ax HE20	MCS11	-57dBm	MCS0	-87dBm
	802.11ax HE40	MCS11	-54dBm	MCS0	-84dBm

	802.11ax HE80	MCS11	-51dBm	MCS0	-81dBm
	802.11ax HE160	MCS11	-48dBm	MCS0	-78dBm
	802.11be EHT20	MCS13	-51dBm	MCS0	-87dBm
	802.11be EHT40	MCS13	-48dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-45dBm	MCS0	-81dBm
	802.11be EHT160	MCS13	-42dBm	MCS0	-78dBm
	802.11be EHT320	MCS13	-40dBm	MCS0	-75dBm
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 x 100/1000/2500Mbps Auto-Negotiation WAN port, supporting IEEE 802.3bt input				
LAN	1 x 100/1000/2500Mbps Auto-Negotiation LAN port, supporting IEEE 802.3af output				
SFP+	1 x 10Gbps SFP+ fiber port, backward compatible with 1Gbps fiber ports				
Console	1 x Standard RS232 RJ45 Console port				
Reset	Reset button (single press for one-key bridge pairing; press and hold for 6-10 seconds to restore factory default settings)				
Power supply	PoE 802.3bt, DC2.0 Phoenix terminal ±48V/1A				
Max Power Consumption	≤ 25W (excluding PSE output)				
LED	a) Laser-engraved **H**: Displays received signal strength from the peer device. Threshold configurable via software; LED stays on when signal exceeds threshold. b) Laser-engraved **M**: Displays received signal strength from the peer device. Threshold configurable via software; LED stays on when signal exceeds threshold. c) Laser-engraved **L**: Displays received signal strength from the peer device. Threshold configurable via software; LED stays on when signal exceeds threshold. d) Laser-engraved **Radio**: Stays on when any wireless radio is enabled. e) Laser-engraved **LAN**: 2.5Gbps Ethernet port; stays on when link is established, flashes once per second when data is transmitted. f) Laser-engraved **WAN**: 2.5Gbps Ethernet port; stays on when link is established, flashes once per second when data is transmitted. g) Laser-engraved **SFP+**: 10G fiber port; stays on when fiber link is established, flashes once per second when data is transmitted. h) Laser-engraved **SYS**: Stays on when powered on; flashes once per second during				

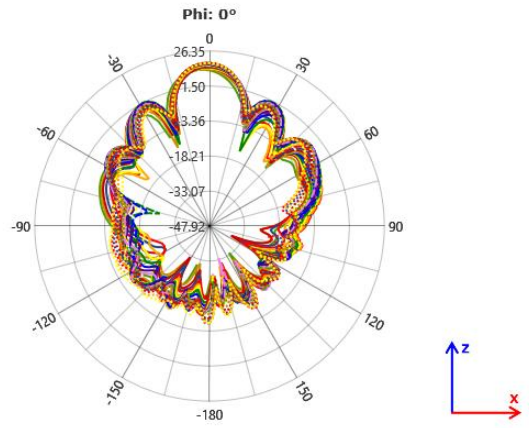
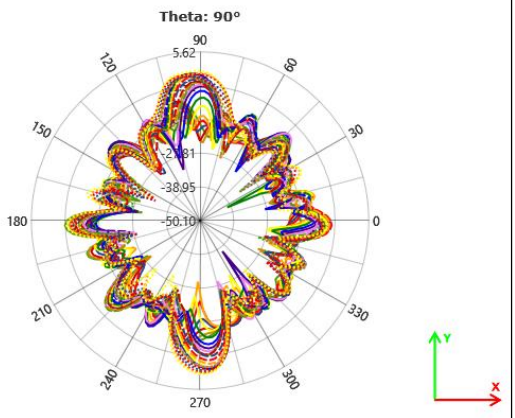
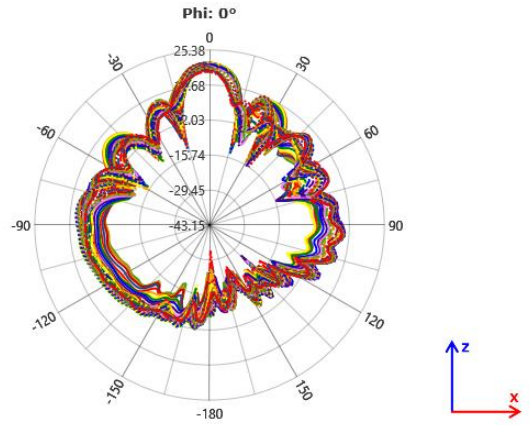
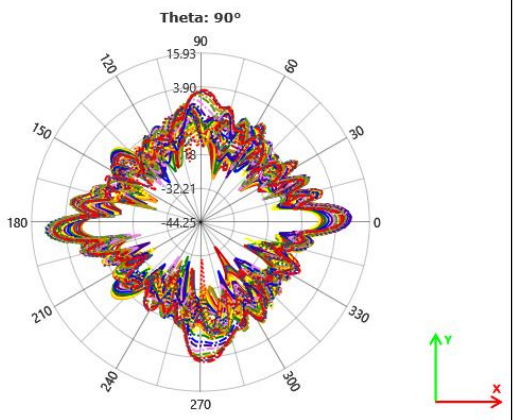
	system startup; stays on after system boots normally.
Size	385.6 × 377.6 × 73.5mm
Weight	3.2kg
Temperature	Working: -40°C~70°C； Storage: -40°C~70°C； Humidity: 5%~95% (Non-Condensing)
ESD	Air:±15K, Touch:±8K
Electrical Surge	Common Mode: 4K, Differential Mode: 2K

Firmware:

Status Display	Displays operating mode, network topology, signal strength, CPU/memory usage, real-time traffic rate, device description, local network info, wireless info, bridge info, WAN info (Gateway/WISP)
Operating Modes	AP mode, Bridge mode, WISP mode, Gateway mode
CPE Management (AP/Bridge Mode)	Bridge self-management based on proprietary GHCP protocol
Wireless Settings	Link Aggregation (MLO), SSID broadcast, hidden SSID, channel selection, encryption (NONE, WPA/WPA2-PSK-AES, WPA3-SAE), max client limit (0-32), virtual AP support (2 SSIDs), spectrum analyzer, country code, client isolation, Radio mode (2×2 MIMO/SISO), MAC access control (Blacklist/Whitelist for specific MAC addresses), Wi-Fi scheduled shutdown, BSSID locking, auto-reboot policy (watchdog mechanism)
Security Center	Website filtering, IP address filtering, MAC address filtering, port forwarding, DMZ
Network Settings	IPv4/IPv6, DHCP, PPPoE, STP, Jumbo Frame, VLAN, port configuration, Ping watchdog, Traceroute, LLDP settings, cloud platform, static DHCP, remote login, static routing
Device Management	Configuration management, scheduled reboot, firmware upgrade, NTP / manual time synchronization with host, system log, remote logging, HTTP, Telnet, SSH, SNMP, traffic control settings, time group/IP group management, PoE power switch, optical module information, DDNS settings

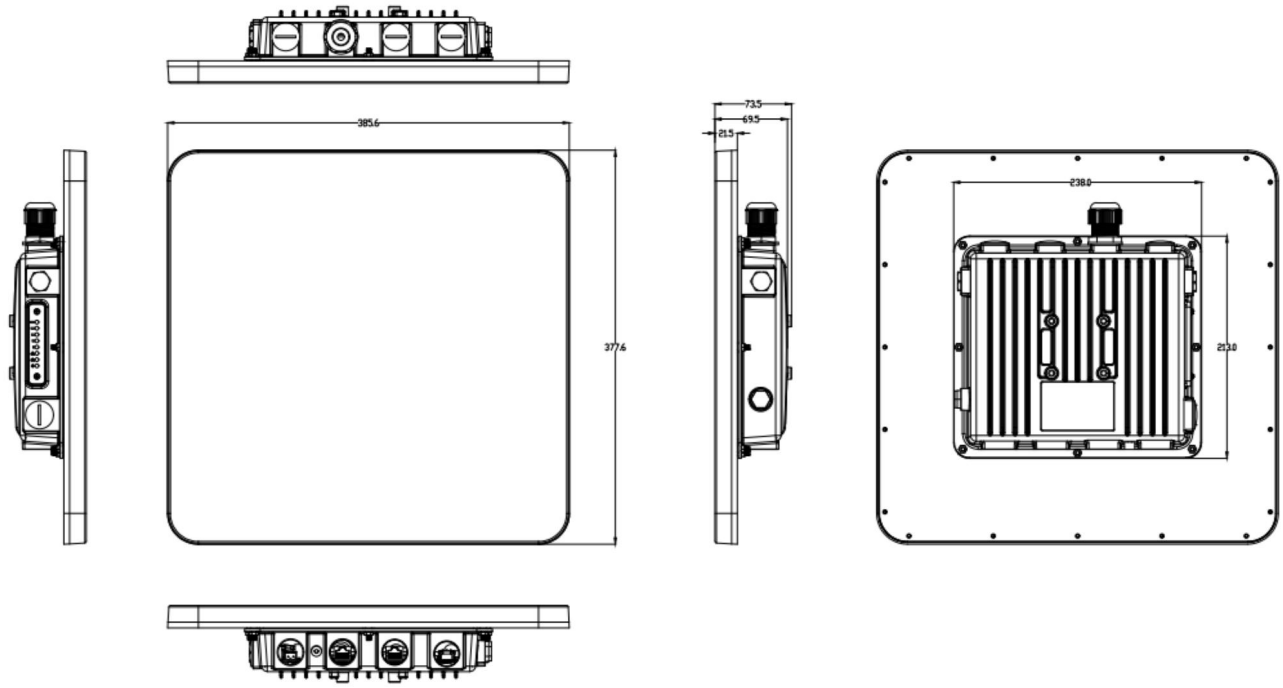
Antenna:

Built-in WiFi Antenna	
Operating Band	5.150GHz ~ 5.850GHz and 5.925GHz ~ 7.125GHz
Gain	23dBi
Polarization	Vertical/Horizontal dual polarization
Cross-Polarization Isolation	18dB
Max. VSWR	<1.92
Horizontal Beamwidth	30°
Vertical Beamwidth	30°
5G Horizontal Pattern	**5G Vertical Pattern**

	
6G Horizontal Pattern	**6G Vertical Pattern**
	

Interface:





Packing:

CPE	1
Power supply	1
Power cord	1
Mounting Kit	1