DATASHEET
Air Setu5ac

Air Pro®
Simple | Secure | Trusted

High-Performance Outdoor Wireless 802.11ac Bridge

PRODUCT OVERVIEW

The Air Setu5ac is a high-performance, long-range outdoor wireless bridge designed for reliable point-to-point (P2P) and point-to-multipoint (P2MP) connections. Built on the advanced 802.11ac technology, it delivers high-speed data transmission, superior signal penetration, and robust anti-interference performance, making it ideal for industrial campuses, remote monitoring, and rural broadband deployment.

Appearance	Description
	• **Integrated 18 dBi Dual-Polarized Sector Antenna:-** Provides a wide 90° coverage with a wireless transmission range up to 5 km, ensuring stable connectivity over long distances. • **Extended Frequency Support (4.9–6.1 GHz):-** Enables operation on non-standard frequencies for flexible channel planning and enhanced anti-interference performance. • **Narrowband Operation (5/10 MHz):-** Offers improved noise immunity and long-distance throughput optimization in challenging environments. • **TDMA Intelligent Dynamic Polling Protocol:-** Reduces network latency and increases efficiency in multi-client scenarios. • **Automatic Transmit Power Control (ATPC):-** Dynamically adjusts transmit power to maintain optimal signal strength and minimize interference. • **VLAN Support:-** Enables network segmentation and improved traffic management for enterprise or ISP deployments. • **IPv6 Compatible:-** Ensures seamless integration into next-generation IP networks.

Air Setu5ac
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PRODUCT SPECIFICATIONS

Hardware Specifications

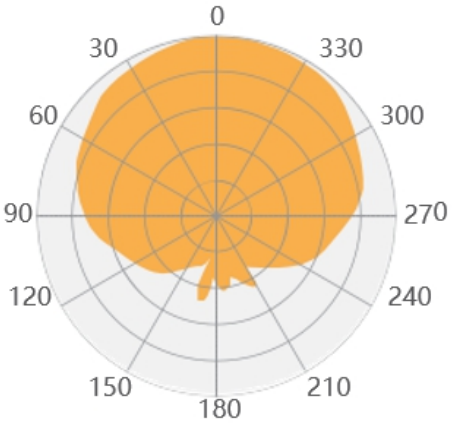
Item	Air Setu5ac				
CPU	QCA9563+QCA9882+AR8033				
Flash	SPI NOR 16MB				
DDR	DDR2 64MB				
5G working frequency	5.150GHz ~ 5.850GHz (Debug mode: 4.9 ~ 6.1GHz)				
5G band width	5/10/20/40/80MHz				
5G WiFi protocol	802.11 a / n /ac				
Max rate	866Mbps				
Antenna	Dual polarized flat directional antenna gain: 18dBi				
5G TX Power	802.11a	54M	24±2dBm	6M	27±2dBm
	802.11n HT20	MCS7	23±2dBm	MCS0	26±2dBm
	802.11n HT40	MCS7	22±2dBm	MCS0	25±2dBm
	802.11ac	MCS9	21±2dBm	MCS0	24±2dBm
5G Receiving Sensitivity	802.11a	54M	-72dBm	6M	-92dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-89dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-87dBm
	802.11ac	MCS9	-58dBm	MCS0	-85dBm
5G EVM	802.11a_54M: ≤-25 dB; 802.11n_MCS7: ≤-28 dB; 802.11AC_MCS9:≤-32dB				
ppm	±20ppm				
WAN	1*10/100/1000M WAN, support 24V POE power				
Power	PoE 24V/1A				
Max Power Consumption	<10W				
Reset	Press 10 seconds for factory resetting.				
Indicators	Power, WAN, Signal*4				
Dimension	430mm*98mm*80mm				
Weight	0.6kg				
Temperature	Working: -40°C to 70°C; Storage: -40°C to 70°C; Humidity: 5% ~ 95% (Non-Condensing)				
IP Grade	IP66				
ESD	Air:±8K, Touch:±6K				
Electrical Surge	Common Mode: 4K, Differential Mode: 2K				

Firmware Specifications

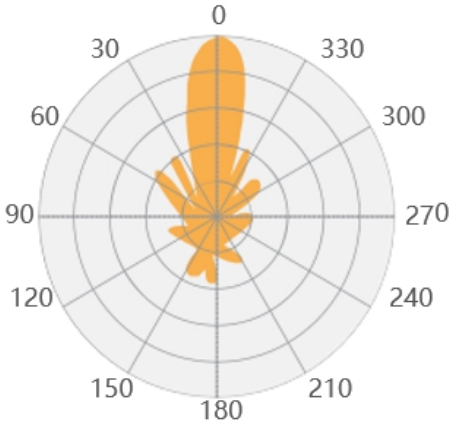
Item	Air Setu5ac
Working mode	Access Point (Automatic WDS), Access Point (TDMA3), Site (WDS/TDMA3), Site (ARPNAT)
Wireless	Intelligent dynamic polling, automatic channel selection, automatic modulation mode selection, automatic transmission power control (ATPC)
Wireless Safety	WPA/WPA2 personal encryption, WPA/WPA2 enterprise encryption, WACL, user isolation
Wireless QoS	TDMA implements 4 queue priority
Network mode	IPv4 Ipv6
VLAN	Support VLAN and VLAN transparent transmission
WAN protocol	Static IP , DHCP client
Service	DHCP service, SNMP service, NTP client, route tracking, ping watchdog
Management	HTTP(S) GUI, SSH, SNMP read, WNMS, Telnet
Built Tool	Site survey, connection testing, antenna calibration

Antenna

Horizontal polarization

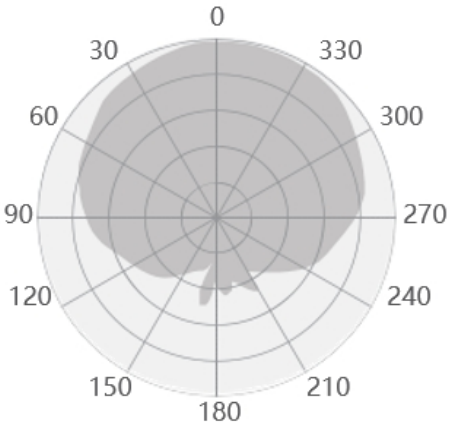


Horizontal beam angle

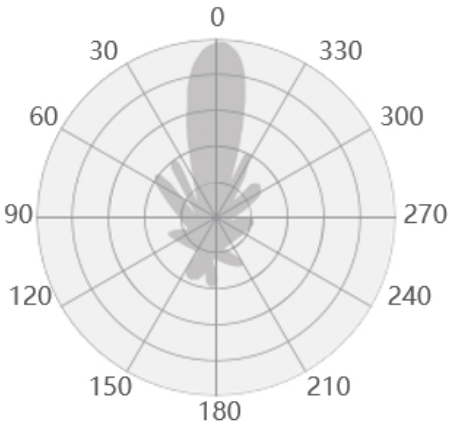


Vertical beam angle

Vertical polarization



Horizontal beam angle



Vertical beam angle

Built in Antenna

Working frequency	4.9-6.1GHz
Gain	18 dBi
Polarization mode	Vertical/horizontal dual polarization
Horizontal beam angle	90°
Vertical beam angle	7.5°

Packing List

CPE	1
Rack kit	1
PoE adapter	1
Guide manual	1
Packing Box	1

All specifications in this document are subject to change without notice. AirPro products are sold with a limited warranty described at: www.airpronetworks.com
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