


High-Performance Outdoor Wireless 802.11ac Bridge

PRODUCT OVERVIEW

The Air Setu Lite 5G CPE is a compact yet high-performance outdoor wireless bridge designed for long-range connectivity and reliable data transmission. Built on 802.11ac wireless technology, it offers strong signal penetration, high throughput, and enhanced anti-interference capabilities, making it ideal for CCTV networks, industrial applications, rural broadband, and point-to-point or point-to-multipoint deployments.

Appearance	Description
	<ul style="list-style-type: none">Integrated 15 dBi Dual-Polarized Antenna:- Optimized directional antenna supporting wireless transmission distances of up to 5 km (environment-dependent).Extended Frequency Range (4.9–6.1 GHz):- Supports non-standard frequency bands for improved flexibility and interference avoidance.Narrowband Support (5 MHz / 10 MHz):- Enables stable long-distance communication in noisy RF environments.TDMA Intelligent Dynamic Polling Protocol:- Enhances network efficiency, reduces latency, and improves concurrent client performance.Automatic Transmit Power Control (ATPC):- Adjusts transmit power dynamically to maintain optimal link strength while reducing noise.VLAN Support:- Enables secure network segmentation and traffic isolation for enterprise or ISP-grade use.IPv6 Ready:- Fully compatible with next-generation network addressing and deployment standards.

PRODUCT SPECIFICATIONS

Hardware Specifications

Item	Air Setu Lite 5G CPE				
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: 15dBi				
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	158mm*97mm*38mm				
Weight	0.18 kg				
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

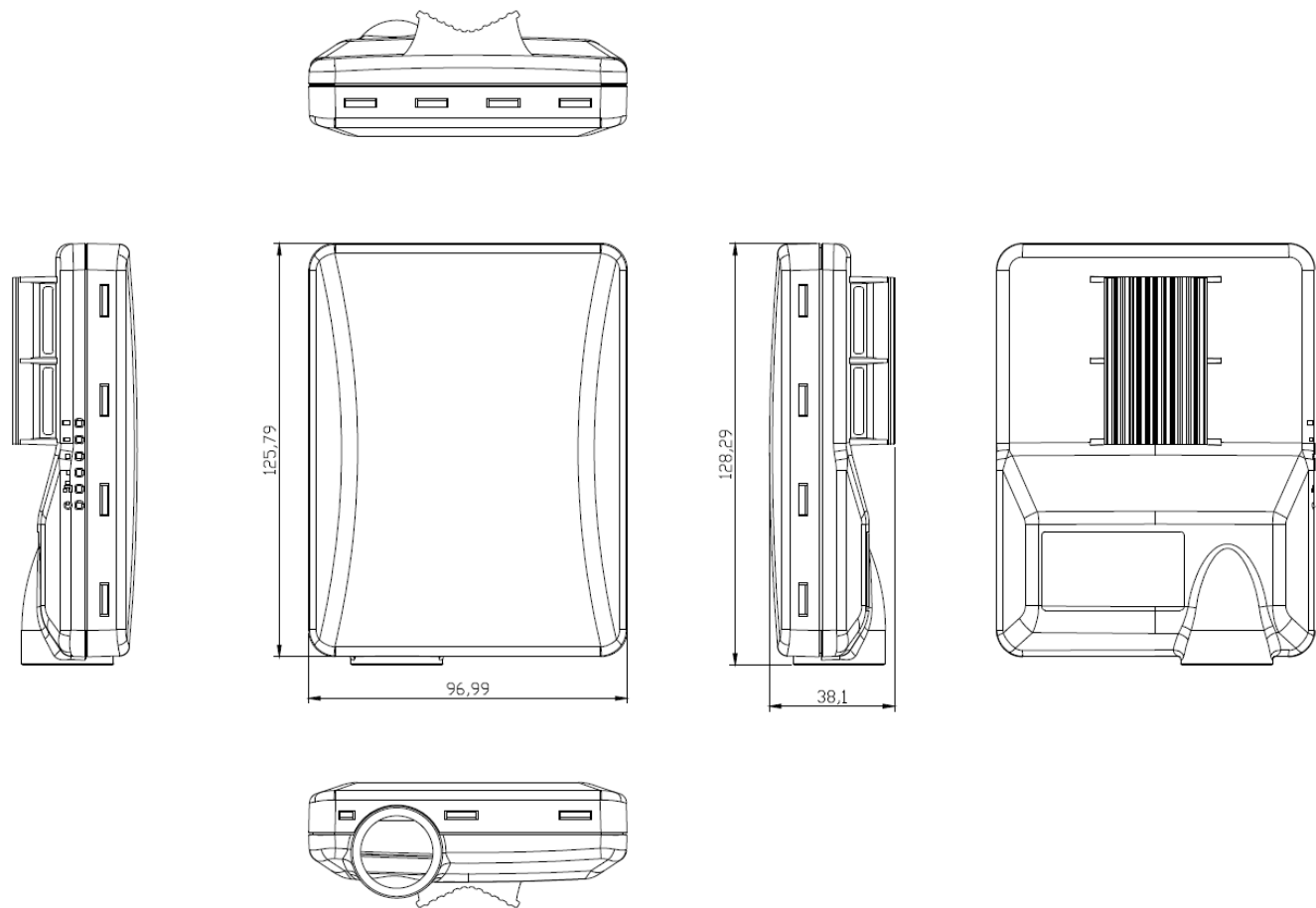
Built in Antenna

Working frequency	4.9-6.1GHz
Gain	15 dBi
Polarization mode	Vertical/horizontal dual polarization
Horizontal beam angle	33°
Vertical beam angle	33°

Packing List

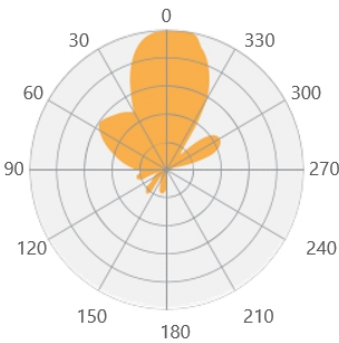
CPE	1
Rack kit	1
PoE adapter	1
Guide manual	1
Packing Box	1

Dimension

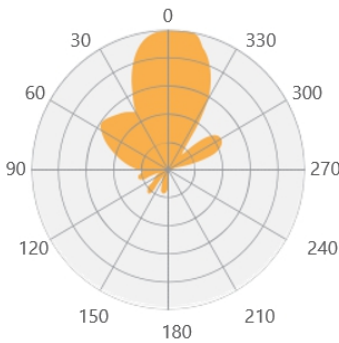


Antenna

Horizontal polarization

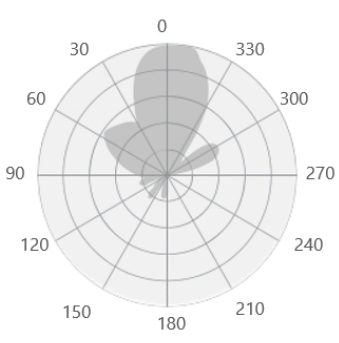


Horizontal beam angle

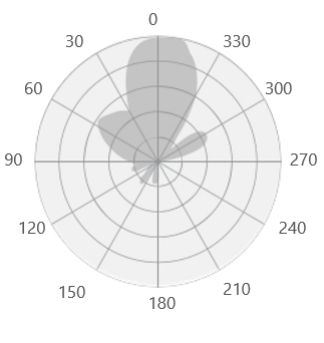


Vertical beam angle

Vertical polarization



Horizontal beam angle



Vertical beam angle