

Waterproof 4G Wireless Router

USR-AP510



Introduction

The AP510 is a high-speed waterproof 4G wireless router featuring global cellular band. It supports dual Ethernet ports (including standard 48V PoE IN), Qualcomm WiFi (AP/STA/Bridge modes), and a built-in eSIM (eliminating the need for a physical SIM card for customers), providing customers with high-speed and reliable connectivity.

Housed in an IP65 waterproof enclosure, it withstands high temperatures up to 75°C and low temperatures down to -40°C, making it particularly suitable for providing wired and wireless networks in outdoor areas where running cables is inconvenient. Applicable scenarios include: scenic area monitoring, construction site monitoring, orchard monitoring, farm monitoring, reservoir monitoring, community monitoring, rural household monitoring, mountainous area monitoring, and other challenging monitoring environments where network deployment is difficult.

Product Features

■ Stable and Reliable

- Qualcomm chip to ensure the performance and stability.
- IP65 rated, wide operating temperature range (-40°C to 75°C), suitable for outdoor scenarios.
- Optional installations: poll and wall mounting
- Dual power supply redundancy: standard 48V PoE IN / DC 9-36V with reverse polarity protection
- Built-in hardware watchdog which can provide self-diagnostics and self-recovery to ensure system stability.

■ Uninterrupted Network Access

- Supports 2G/3G/4G network all over the world ,supports APN/VPDN sim card.
- Failover between 4G, WAN and WiFi, ensures automatic switch to alternative backup connection, effectively ensuring
- Equipped with strong Wi-Fi capability, 802.11 a/b/g/n, 2.4G Wi-Fi, 2*2 MIMO, up to 300Mbps, Support AP/STA/repeater mode
- VPN tunnel detection: maintains stable connection of the VPN tunnel, ensuring continuous transmission.
- Multi-layer link detection mechanism, automatic redial and recovery.

■ Powerful Functionality

- Supports remote monitoring, upgrade and parameter configuration, remote access to the built-in web pages.
- Supports IPsec VPN, PPTP, L2TP, OPENVPN, GRE etc., ensuring secure data transmission.
- Supports firewall, NAT, DMZ, black and white list of access control.
- Supports DDNS, PPPOE, DHCP, Static IP.
- Supports firewall functions including NAT, access control, DDoS defense, IP-MAC binding, etc., protecting the network against external attacks.
- Support SNMP, VLAN

Dimensions

Unit: mm

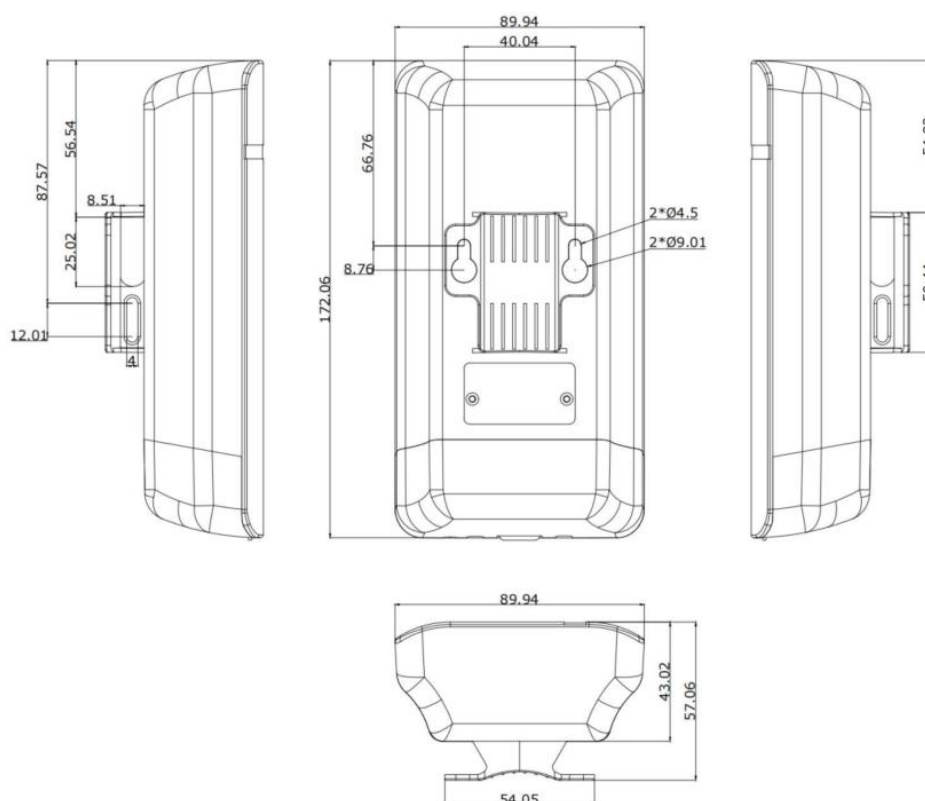


Figure 1 Dimension of AP510

Specifications

Catalog	Parameters	Value
Cellular	Band(China, India)	LTE FDD: B1/3/5/8 LTE TDD: B34/38/39/40/41 WCDMA: B1/5/8 GSM: 900/1800MHz
	Band(global)	TDD-LTE:Band 34/38/39/40/41 FDD-LTE: Band 1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 WCDMA:B1/2/4/5/6/8/19 GSM/GPRS/EDGE: B2/3/5/8
	Antenna	Built-in full bidirectional antenna
	SIM slot	1 x Nano-SIM
Ethernet Interface	WAN	1 x WAN port (can be configured to LAN) 10/100 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX
	LAN	1 x LAN port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX,
WiFi	Standards & Frequency	IEEE 802.11b/g/n, 2.4GHz
	Mode	AP/STA/Repeater
	Data speed	300Mbps
	Antenna	Built-in full bidirectional antenna

	Transmission distance	50 meters by line of sight. Actual transmission distance depends on environment of the site.
	MIMO	2 x 2
	WiFi users	8
Power Supply	Adaptor	DC 12V/1A
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN industrial terminal block, reverse polarity protection
	Input voltage	DC 9-36V
	Power consumption	12V@300mA
Physical Characteristics	Casing material	IP65 rated, ABS material
	Dimensions	172.06*89.94*57.06mm
	Installation	Poll mounting and wall mounting
	EMC	Static IEC61000-4-2, level 2 Pulsed Electric Field IEC61000-4-4, level 2 Surge IEC61000-4-5, level 2
	Operating Temperature	-40°C to +70°C
	Storage Temperature	-40°C to +85°C (non-condensing)
	Operating Humidity	5%-95% (non-condensing)
Others	Indicators	POWER、WIFI、NET、SIG、WAN/LAN1、LAN2
	Reload button	Long press 5-15s to reset to factory settings

Purchase & Support

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