# Commercial AP Controller

## AC200/AC1000



## Introduction

Wireless Access Controller, referred to as AC, is used to manage and control wireless access points (APs)and wireless users in wireless local area networks (WLAN). It can centrally monitor the working status of APs, remotely deliver configurations to APs, upgrade APs remotely and etc., and can also control user access. Through AC, you can manage and control wireless networks conveniently and provide more secure, stable and efficient wireless access services.

PUSR provides two models of AP controllers: AC200 and AC1000. Both models have 1 WAN + 4 LAN ports, all of which are Gigabit ports. All 4 LAN ports of AC200 support PoE output, the PoE output power based on port can be up to 30W and can be up to 120W based on device. For AC1000, it supports standard 1U rack installation.

# Product Features

- MTKT7621AT MIPS1004Kc (880 MHz) dual-core CPU, adopting high-performance processor can provide more stable network and faster transmission rate.
- Supported standard: IEEE802.3, IEEE802.3u, IEEE802.3ab.
- Equipped with 1*10/100/1000M WAN, 4*10/100/1000M LAN (PoE output), auto MDI/MDIX.
- PoE output standard: IEEE 802.3af, IEEE 802.3at, 48V out, max 57W power supply, 30W for single PoE ports.
- Metal shell can provide heat dissipation and effectively shields electromagnetic interference.
- Support multiple installations: Desktop, DIN rail mounting, wall mounting, 1U Rack Mount: Standard 19-inch cabinet type(only for AC1000).
- Rich hardware interface: 1*USB2.0, 1*USB3.0, 1*console, 1*reload button.
- Manages up to 200 wireless access points, and 100 users as gateway.
- Support router mode and AP mode.
- Support DHCP, PPPoE, static IP in router mode.
- Support WAN/LAN switching, and multi-WAN settings.
- Supports multiple services: HTTP, NAT, QOS, etc.
- Can be centrally managed through the PUSR cloud.
- Can monitor each access point and connection status of network devices.
- Support reset to factory settings via reload button.
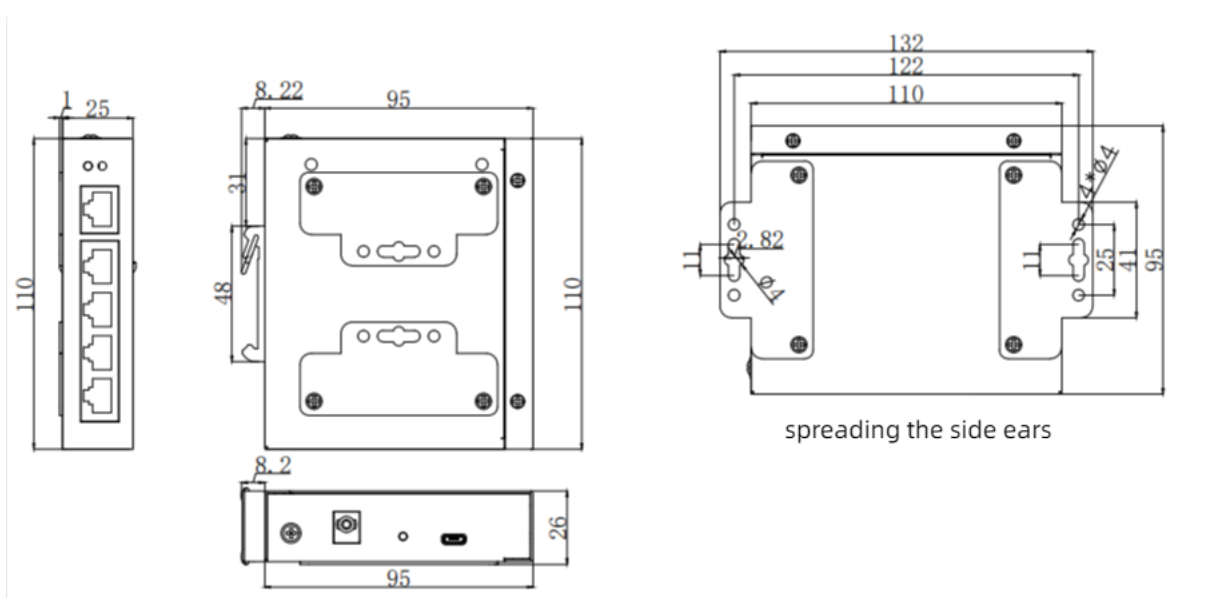- Support OpenWrt system customization.
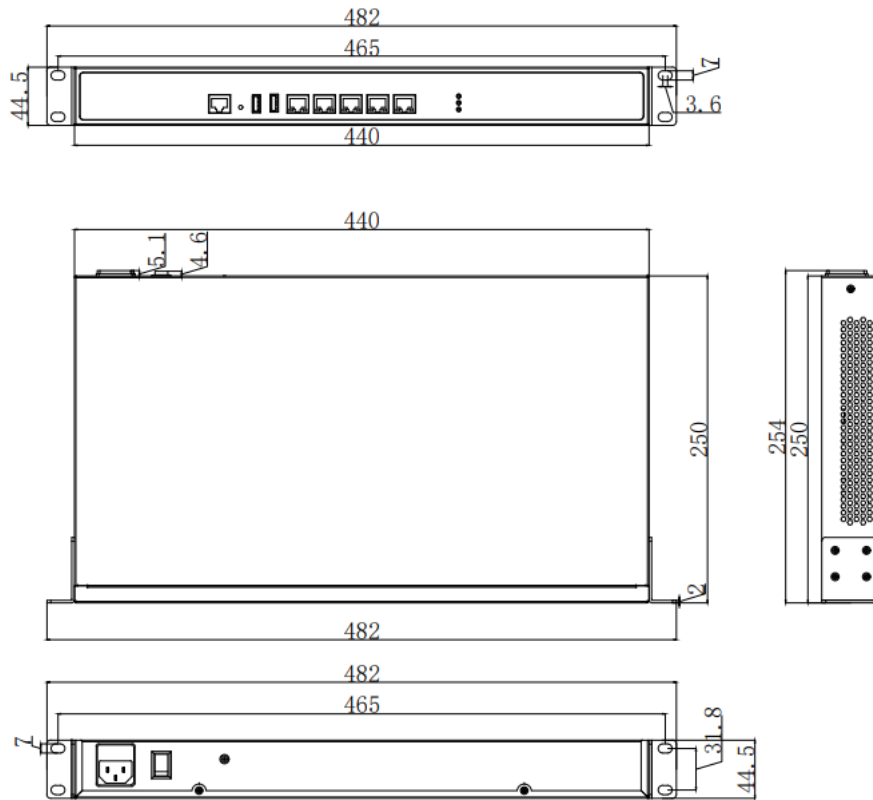
# Dimensions

Unit: mm



Fig.1 Dimension of AC200

Fig.1 Dimension of AC1000

## Specifications

| Model | AC200 | AC1000 |
|---|---|---|
| Processor | MTK MT7621AT | |
| DDR | DDR3 2Gbit | |
| FLASH | Nor Flash 64Mbit | |
| POE | RTL8234B | None |
| EEPROM | BL24C64A | |
| **Power** | | |
| Power | Power adapter<br>Input: 100 – 240 V AC, 50/60 Hz<br>Output: 53.5VDC/1.22A | 100~240V 50/60Hz AC |
| Power consumption | ≤5W | ≤12W |
| **Hardware** | | |
| WAN | 1*RJ45, 10/100/1000M, auto MDI/MDIX | |
| LAN | 4*RJ45, 10/100/1000M, auto MDI/MDIX<br>48V PoE out, IEEE 802.3af, IEEE 802.3at standard | 4*RJ45, 10/100/1000M, auto MDI/MDIX |
| Console port | 1* Micro USB | 1*RJ45 |
| USB | / | 1*USB2.0+1*USB3.0 |
| Reload | Reset to factory settings | |
| Indicators | Power, work, Ethernet port indicator | Power, work, USB, Ethernet port indicator |
| EMC Protection | IEC 61000-4-2, level2, ESD<br>IEC 61000-4-4, level2, EFT<br>IEC 61000-4-5, level2, surge | |
| **Software** | | |

| Work Mode | Router mode, AP mode |
|---|---|
| Management | HTTP Web based GUI<br>Local or online Firmware upgrade<br>Configuration Backup / Restore<br>Centrally managed through the PUSR cloud |
| AP Management | Manage up to 200 access points<br>Manage up to100 end users<br>Centrally and remotely to manage/configure wireless AP<br>View user's status |
| Others | IP binding<br>Port mapping<br>WAN/LAN switching, and multi-WAN settings<br>Multiple services: HTTP, NAT, QOS, etc<br>OpenWrt system customization |

| Physical Parameters | | |
|---|---|---|
| Dimension | 110*95*25mm | 440*250*44.5mm |
| Installation | Desktop, wall mounting, DIN rail mounting | Desktop/1U Rack Mount |
| Operating Temperature | 0℃ ~ 45℃ | |
| Storage Temperature | -40℃ ~ 75℃ | |
| Operating Humidity | 5 ~ 95 %(non-condensing) | |

# AP Ordering Guide

| Model<br>Description | AP530X(Wi-Fi6)<br>NR530X（5G+Wi-Fi6） | AP520X（Wi-Fi6）<br>NR520X（5G+Wi-Fi6） | AP310i（Wi-Fi6）<br>NR310i（5G+Wi-Fi6） |
|---|---|---|---|
| Product picture | | | |
| Feature | WiFi 6/ 6E ax7800 outdoor tri-band AP | WiFi 6 ax3000 outdoor dual-band AP | WiFi 6 ax3000 ceiling mount dua-band AP |
| Wi-Fistandard | WiFi 6 | WiFi 6 | WiFi 6 |
| Wi-Fi band | 2.4G+5G1+5G2( or 6G) | 2.4G+5G | 2.4G+5G |
| MIMO | 2*2+2*2+4*4 MU-MiMo | 2*2+2*2 MU-MiMo | 2*2+2*2 MU-MiMo |
| Wi-Fi rate | 573.5+2401+4802Mbps | 573.5+2401Mbps | 573.5+2401Mbps |
| Wi-Fi antenna | External antenna | External antenna | External antenna |
| Ethernet ports | 1*2.5G WAN/LAN(PoE in) | 1*1G WAN/LAN(PoE in) | 1*2.5G WAN/LAN(PoE in) |
| Operating temperature | -40℃ ~70℃ | -40℃ ~70℃ | 0℃ ~40℃ |
| Operating humidity | 0%~90% RH (non-condensing) | 0%~90% RH (non-condensing) | 0%~90% RH (non-condensing) |
| Dimension（mm） | 245*200*90 | 245*200*90 | 195*195*42 |
| Installation | Bracket mount | Bracket mount | Ceiling mount |

# Purchase & Support

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