



Outdoor AX3000 Gigabit
High-Power Wi-Fi 6
Access Point



Outdoor AX3000 Gigabit High-Power Wi-Fi 6 Access Point

Model: AP3000 Outdoor

HIGHLIGHT FEATURES

- AX3000 Wi-Fi 6 with 160 MHz Channel with 2402 Mbps on 5 GHz and 574 Mbps on 2.4 GHz
- Exceptional range with five independent PA and 3+2 antennas provide extensive Wi-Fi coverage
- 802.3at and 48-57 V Passive PoE (Passive PoE Adapter Included)
- IP65 dust/waterproof and 6 KV lightning surge protection at the Ethernet port
- -40–70 °C (-40–158 °F) working temperatures

HARDWARE FEATURES

Highlights

- MT7981BA+MT7976DAN
- 1.3 GHz Dual-Core ARM Cortex-A53 CPU
- 128 MB (1 Gbit) Flash / 256 MB (2 Gbit) DDR
- An Auto Heater for the Extra Cold Environment
- Hardware Watchdog

Interfaces

- 1× Shielded Gigabit Ethernet Port (PoE-In)
- 1× Reset Button
- 1× WPS Button

Power Supply

- 802.3at PoE
- 48-57 V Passive PoE



Dimensions (W×D×H)

- Access Point (without Antennas):
240×100×53.7mm
- Wi-Fi Antennas:
197.5×21.6×15.5 mm each
- Height of AP with Antennas installed:
438 mm

LED

- 1× System LED Indicator

Mounting

A mounting kit is included, supporting

- Wall Mounting
- Pole Mounting



WIRELESS FEATURES

Wireless Standard

- Wi-Fi 6 (802.11ax/ac/n/g/b/a)

Frequency

- 2.4 GHz and 5 GHz

Signal Rate

- 5 GHz: Up to 2402 Mbps
- 2.4 GHz: Up to 574 Mbps

Bandwidth

- 20/40/80/160 MHz

Range Performance

- Max: 320 m (1050 ft)
- Park: 280 m (919 ft)
- Street: 70 m (230 ft)
- Woods: 40 m (131 ft)

Wireless Functions

- Cudy Mesh Fast Roaming
- Captive Portal^[1]
- Multiple SSID^[2]
- Enable/Disable Wireless Radio
- Transmit Power Control
- QoS (WMM)
- Band Steering^[2]
- MU-MIMO
- OFDMA
- Beamforming
- Rate Limit
- Reboot Schedule
- Wireless Schedule

1. Captive portal available in Router mode, or when connecting another Cudy Wi-Fi Router/AP controller with active Captive Portal

2. Requires a Cudy AP Controller function as controller. Cudy AP Controller is coming soon.

Wireless Capacity

- Max client: 512
- Recommended: 200

Wireless Encryption

- WPA/WPA2/WPA3

Security

- Access Control
- Mac Filtering
- Wireless Isolation Clients
- VPN Server and Client
 - ZeroTier, Wireguard, OpenVPN, IPsec, L2TP, PPTP
- DNS over TLS
 - CloudFlare, Google, Quad9

OPERATION MODES

- Wireless Access Point Mode
- Wireless Router Mode
- Wireless Extender Mode
- WISP Mode

ENVIRONMENT:

- Operating Temperature: -40–70 °C (-40–158 °F)
- Storage Temperature: -40–70 °C (-40–158 °F)
- Operating Humidity: 10–90% RH non-condensing
- Storage Humidity: 5–90% RH non-condensing

PACKAGE CONTENTS

- Outdoor Access Point
- 2x Detachable Wi-Fi Antennas
- 48 V PoE Adapter
- Ethernet Cable (Length: 1 m)
- Mounting Kit
- Installation Guide

SYSTEM REQUIREMENTS

- Microsoft Windows, macOS, Linux, or Unix
- Latest Web Browser, such as Firefox, Chrome, Safari, or Edge
- A Cable or DSL Modem, or other devices providing Internet
- Subscription with an internet service provider

CE DECLARATION OF CONFORMITY

For the following equipment:

Product Name: Indoor/Outdoor AX3000 High-Power Wi-Fi 6 Access Point

Model Number: AP3000 Outdoor

Trademark: Cudy

We declare under our own responsibility that the above product satisfies all the technical regulations applicable to the product within the scope of Council Directives:

Directive 2014/30/EU, Directive 2014/35/EU, Directive 2011/65/EU, Directive (EU) 2015/863

The above product is in conformity with the following standards or other normative documents:

EN 55032:2015+A1:2020

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021

EN 55035:2017+A11:2020

EN IEC 62368-1:2020+A11:2020

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-3 V2.3.2 (2023-01)

ETSI EN 301 489-17 V3.2.4 (2020-09)

ETSI EN 300 328 V2.2.2 (2019-07)

ETSI EN 301 893 V2.1.1 (2017-05)

ETSI EN 300 440 V2.2.1 (2018-07)

EN 50385:2017

EN IEC 62311:2020

EN 62232:2017

IEC 62321-2:2013, IEC 62321-5: 2013

IEC 62321-7-1:2015, IEC 62321-3-1:2013

IEC 62321-6:2015, IEC 62321-7-2:2017

IEC 62321-8:2017

Person responsible for making this declaration:

Sun Qiaoyun

Regulatory Compliance Manager

Place of issue: Shenzhen, China

Date of issue: 2024-04-11



ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

Για τον ακόλουθο εξοπλισμό:

Όνομα Προϊόντος: Indoor/Outdoor AX3000 High-Power Wi-Fi 6 Access Point

Αριθμός Μοντέλου: AP3000 Outdoor

Εμπορικό Σήμα: Cudy

Διακηρύσσουμε με κάθε ευθύνη ότι το παραπάνω προϊόν συμμορφώνεται με όλους τους τεχνικούς κανονισμούς που ισχύουν για το προϊόν, εντός του αντικειμένου των Κοινοτικών Οδηγιών:

Οδηγία 2014/30/ΕΕ, Οδηγία 2014/35/ΕΕ, Οδηγία 2011/65/ΕΕ, Οδηγία (ΕΕ) 2015/863

Το παραπάνω προϊόν βρίσκεται σε συμμόρφωση με τα ακόλουθα πρότυπα ή άλλα έγγραφα συμμόρφωσης

EN 55032:2015+A1:2020

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021

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IEC 62321-6:2015, IEC 62321-7-2:2017

IEC 62321-8:2017

Υπεύθυνος για τη δήλωση αυτή:

Sun Qiaoyun

Διευθυντής κανονιστικής συμμόρφωσης

Τόπος έκδοσης: Shenzhen, Κίνα

Ημερομηνία έκδοσης: 2024-04-11

