



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



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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

ENVIRONMENTAL:

- 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