



AX3000 Ceiling Mount  
Wi-Fi 6 Access Point with  
2.5G Port



# AX3000

## Ceiling Mount Wi-Fi 6 Access Point with 2.5G Port

Model: AP3000



### HIGHLIGHT FEATURES

- AX3000 Wi-Fi 6: Simultaneous 574 Mbps on 2.4 GHz and 2402 Mbps on 5 GHz totals 2976 Mbps Wi-Fi speeds.
- 2.5Gbps Ethernet Port: A 2.5 Gbps Ethernet port boosts total internet throughput.
- 160 MHz Channel: Double the data at peak transmission times on a single stream with HE160.
- Flexible Power Supply: Support 802.3af/at, 24-57 V Passive PoE or 12 V DC.
- Advanced Wireless Technology: Optimize network performance with MU-MIMO, OFDMA, Band Steering, and Beamforming technologies.
- Cudy Mesh: Connect with Cudy Mesh / AP Controller to enable fast roaming.
- Hardware Watchdog: Automatically reboots AP when software freezes.

### HARDWARE

#### Chipset:

- CPU: 1.3 GHz Dual-Core Cortex-A53 CPU
- Chipsets: MT7981BA+MT7976CN+RTL8221B
- Flash/DDR: 256 MB ROM / 512 MB RAM

#### Reliability:

Hardware Watchdog

#### Interfaces:

- 1× 2.5Gbps Ethernet (RJ-45) Port (PoE IN)
- 1× Reset Button
- 1× DC Jack

#### Power Supply:

- 802.3af/at PoE
- 24-57 V Passive PoE
- 12 V DC

#### Dimensions :

- 232×232×57.1 mm

#### Antenna Type:

- 5 Internal Omni-directional Antennas

#### Mounting:

- Ceiling /Wall Mounting (Kit included)



# WIRELESS FEATURES

## Wireless Standards:

- IEEE 802.11ax/ac/n/g/b/a

## Frequency:

- 2.4 GHz and 5 GHz

## Signal Rate:

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

## Bandwidth:

20/40/80/160 MHz

## Capacity:

512 Devices

## Wireless Functions

- 1024-QAM
- MU-MIMO
- OFDMA
- Multiple SSID
- Enable/Disable Wireless Radio
- Transmit Power Control
- QoS (WMM)
- Seamless Roaming
- Band Steering
- Airtime Fairness
- Beamforming
- Rate Limit
- Reboot Schedule
- Wireless Schedule
- Mesh

## Wireless Encryption

- WPA-PSK
- WPA2-PSK
- WPA3-SAE
- WPA-PSK/WPA2-PSK
- WPA2-PSK/WPA3-SAE

# OPERATION MODES

- Wireless Access Point
- Wireless Router
- Wireless Extender
- WISP
- Mesh

# PACKAGE CONTENT

- AX3000 Ceiling Mount  
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- 12V DC Adapter
- Mounting Kits
- Installation Guide

# ENVIROMENTS:

- Operating Temperature: 0–40 °C (32–104 °F)
- Storage Temperature: -40–70 °C (-40–158 °F)
- Operating Humidity: 10–90% RH non-condensing
- Storage Humidity: 5–90% RH non-condensing

# SYSTEM REQUIREMENTS

Windows, macOS, Android, iOS, or other OS with networking capability

Firefox, Chrome, Safari, Edge, or other up-to-date web browsers

Cable/DSL/ONT modem or other internet source devices

Internet subscription with ISP or carriers

A Cudy AP Contorller or Mesh device for Mesh, multi-SSID, other advanced feature

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 23 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.