



AX3000
2.5G Wi-Fi 6
Ceiling Access Point



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Model: AP3000_P



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

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

PACKAGE CONTENT

- AX3000 Wi-Fi 6 2.5G Access Point
- 48 V Passive PoE Adapter
- Mounting Kits
- Installation Guide

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