



AIRY-AP5000MB

COMMANDO AirY 5000Mbps, 2.5G 802.11be, 4K-QAM MLO MRU, WiFi 7 Access Point

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Product Overview

COMMANDO AIRY-AP5000MB is a Wi-Fi 7 indoor Access Point that operates in standalone mode. It delivers aggregate wireless throughput exceeding 5Gbps with dual-band wireless connectivity, offering up to 688Mbps on the 2.4GHz band and up to 4323Mbps on the 5GHz band. Equipped with a 1×2.5Gbps RJ-45 port, it provides high-speed wired connectivity to maximize wireless performance. The access point is designed to deliver reliable wireless coverage for small and medium enterprises, university campuses, concert venues, gymnasiums, commercial establishments, and other enterprise environments.

It is indoor Wall/Ceiling AP which can install at every place to work as a stable base station for access users. It supports (IEEE 802.3at) PoE+ as well DC power supply, which helps in easy installation by eliminating the need of a dedicated power source and need of a power adapter. It can identify and determine the correct transmission speed and half/full duplex mode of the attached devices. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables, Store-and-Forward forwarding scheme to ensure low latency and high data integrity.

Product Highlights

- Wi-Fi 7 Indoor Ceiling-Mount Access Point with dual-band 2×2 MIMO (2.4GHz) and 3×3 MIMO (5GHz) architecture, delivering an aggregate wireless throughput of up to 5011Mbps.
- Supports Wi-Fi 7 (IEEE 802.11be) with backward compatibility for IEEE 802.11ax/ac/n/a/b/g standards, ensuring compatibility with both next-generation and legacy wireless devices.
- Supports 4096-QAM and Multi-Link Operation (MLO) to maximize throughput, improve spectral efficiency, reduce latency, and enhance user experience.
- Equipped with one 2.5Gbps Multi-Gigabit WAN port and one Gigabit LAN port, eliminating wired bottlenecks and maximizing Wi-Fi 7 performance.
- Supports up to 256 concurrent wireless users with up to 8 SSIDs, making it ideal for high-density enterprise, education, hospitality, and commercial deployments.
- Provides wireless coverage of up to 150 meters radius, depending on deployment, site layout, and environmental conditions.
- Supports Gateway, AP, Repeater, and WISP operating modes, providing deployment flexibility for a wide range of networking scenarios.
- Supports IEEE 802.3at PoE+ and DC 12V power input, enabling flexible installation while reducing deployment complexity.
- Built-in high-gain MIMO antennas with adjustable transmit power deliver optimized RF coverage, improved signal quality, and reliable indoor wireless connectivity.
- Compact enterprise-class ceiling-mount design with low power consumption, ESD protection, and surge protection for reliable long-term operation.

Features and Benefits

Wi-Fi 7 (IEEE 802.11be)

AIRY-AP5000MB is a next-generation Wi-Fi 7 dual-band Access Point featuring 2×2 MIMO (2.4GHz) and 3×3 MIMO (5GHz) architecture with a combined wireless throughput exceeding 5Gbps. It supports 4096-QAM modulation and Multi-Link Operation (MLO), enabling simultaneous multi-band connectivity for higher throughput, lower latency, and improved reliability. The Access Point is fully backward compatible with IEEE 802.11ax/ac/n/a/b/g wireless clients.

2.5 Gigabit Ethernet Speed

It is equipped with a high-speed 2.5Gbps RJ-45 WAN port along with a Gigabit LAN port to fully utilize Wi-Fi 7 performance. The high-speed uplink eliminates network bottlenecks and provides reliable connectivity for bandwidth-intensive applications.

Wireless Client Support

Supports up to 256 concurrent wireless users, making it suitable for enterprise offices, educational institutions, hospitality, and other high-density wireless environments.

MIMO and Advanced Wireless Technology

The Access Point utilizes advanced MIMO technology with 2×2 spatial streams on 2.4GHz and 3×3 spatial streams on 5GHz to improve communication efficiency and wireless coverage. Support for 4096-QAM and MLO enhances network performance, reliability, and user experience.

Dual Power Option

It supports IEEE 802.3at Power over Ethernet (PoE+) as well as DC 12V/2A power input, providing flexible deployment options and reducing installation costs where power outlets are limited.

Easy to Use

COMMANDO AIRY-AP5000MB has a standalone WEB GUI based configuration that is simple to deploy and manage. It supports Plug-and-Play installation, Zero Touch Provisioning, automatic RF power adjustment, built-in Wi-Fi analysis, and dynamic LED status indication, and scheduled reboot.

Wireless Security and Network Protection

Supports advanced wireless security with OPEN, WPA/WPA2-PSK (TKIP/AES), and WPA3-PSK (AES). It also supports Wireless MAC Address Filtering, Firewall functions, Client Isolation, SSID hiding, and Band Steering for secure and optimized network operation.

Intelligent Wireless Management

Supports Multi SSID (up to 8), Band Steering (5GHz priority), Wi-Fi scheduling, transmit power adjustment, QoS (WMM), DHCP Server, PPPoE, backup and restore configuration management for efficient network administration.

Compact and Silent Performance

The compact ceiling-mount design operates silently, making it ideal for offices, conference rooms, classrooms, hotels, hospitals, and other noise-sensitive environments.

Support for Uninterrupted Critical Network Infrastructure

The dual-power architecture with IEEE 802.3at PoE+ and DC input provides operational flexibility and improves service continuity. This helps reduce downtime and ensures stable wireless connectivity for users and network applications.

Value for Money

A state-of-the-art Wi-Fi 7 Access Point designed to deliver high-speed wireless connectivity, enterprise-class reliability, and easy deployment, making it an ideal solution for modern business networks.

Green Technology

The Access Point is designed with energy-efficient hardware architecture and low power consumption of less than 20W. It supports IEEE 802.3at PoE for efficient power delivery and contributes to environmentally friendly network deployment.

Software

COMMANDO AIRY-AP5000MB supports standalone FAT AP mode with an easy-to-use WEB GUI for local management and configuration.

Monitoring

Wireless AP Download/Upload Speed, System Uptime, Device Information, Device Description, LAN Information, Wi-Fi Information, and Running Status.

System Setup

Basic Settings, Backup Configuration, Restore Configuration, Restore Factory Settings, Firmware Upgrade, Scheduled Reboot, Immediate Reboot, Time Management, and System Log.

Network

Supports Gateway Mode, AP Mode, Repeater Mode, WISP Mode.

Gateway Mode

- Static IP
- DHCP
- PPPoE

AP Mode

- Ethernet uplink for Internet access
- Supports built-in DHCP Server or operation with an external DHCP Server.

Repeater Mode

- Extends the coverage of an existing wireless network without additional cabling.

WISP Mode

- Connects to an Internet Service Provider (ISP) wirelessly and shares the connection with local wired and wireless clients.
- Additional Network Features:
 - Built-in DHCP Server or operation with an external DHCP Server.
 - Firewall Function.
 - PPPoE support

Wireless Management

Wireless Features

- SSID Broadcast
- Multi SSID up to 8 (4 SSID for 2.4GHz and 4 SSID for 5GHz)
- Hide SSID
- Band Steering (5GHz Priority)
- Wi-Fi Schedule
- Transmit Power Adjustment
- QoS (WMM)
- Client Isolation
- Wireless MAC Address Filtering (Whitelist)

Wireless Security

Supports:

- OPEN
- WPA/WPA2-PSK (TKIP/AES)
- WPA3-PSK (AES)

Device Management

Supports:

- Backup Configuration
- Restore Configuration
- Factory Reset
- Firmware Upgrade
- Scheduled Reboot
- Immediate Reboot
- Time Synchronization
- System Log

Firewall and Network Services

- Built-in Firewall
- PPPoE Support
- DHCP Server

User Management

Displays wireless client information including:

- IP Address

- MAC Address
- Connected SSID
- Signal Strength
- Connection Time

Easy Configuration

COMMANDO AIRY-AP5000MB provides an intuitive WEB GUI interface for easy deployment and management. It supports Plug-and-Play installation, built-in Wi-Fi analysis, dynamic LED status indication, Zero Touch Provisioning, and requires minimal configuration for operation.

Logs

Supports System Logs for device monitoring and troubleshooting.

COMMANDO AIRY-AP5000MB standalone software supports SSID Broadcasting, Multi SSID up to 8 (4 SSID in 2.4GHz and 4 SSID in 5GHz), Gateway Mode, AP Mode, Static IP, DHCP, PPPoE, Built-in Basic Firewall, Wireless MAC Address Filtering, Band Steering, Wi-Fi Scheduling, Client Isolation, QoS (WMM), and WEB GUI management.

Hardware

Solid Performance with Non-Blocking Architecture

Powered by a high-performance hardware platform with 128MB NAND Flash and 512MB DDR3 memory, providing enhanced data processing capability and stable wireless performance.

Equipped with 1× 10/100/1000/2500Mbps WAN port and 1× 10/100/1000Mbps LAN port to deliver high-speed network connectivity and maximize Wi-Fi 7 performance.

Designed with a non-blocking architecture to ensure smooth and reliable data transmission.

Physical Ports and Networking Interfaces

- 1 × 10/100/1000/2500Mbps RJ-45 WAN Port with IEEE 802.3at PoE+ support
- 1 × 10/100/1000Mbps RJ-45 LAN Port
- LED Status Indicators (Red, Green, and Blue)
- Reset Button
- DC 12V Power Input

Extra Long Operational Life

Built with a high-quality PCB design and industrial-grade components for long-term reliability and stable operation.

Supports an operating temperature range of -10°C to 55°C and storage temperature from -40°C to 70°C.

Compact indoor ceiling-mount design suitable for enterprise, education, hospitality, and office deployments.

Provides ESD protection up to Air ±8KV and Contact ±6KV, along with electrical surge protection for enhanced device reliability.

Noise-Free Operation

Fanless and silent hardware design ensures quiet operation, making it ideal for offices, conference rooms, classrooms, hospitals, hotels, and other noise-sensitive environments.

Specifications

Technical Specifications

Supports 2.4GHz + 5GHz dual-band operation with IEEE 802.11be/ax/ac/a/b/g/n standards and backward compatibility for legacy wireless clients. It is a standalone FAT AP supporting up to 8 SSIDs, with wireless security options including OPEN, WPA/WPA2-PSK (TKIP/AES), and WPA3-PSK (AES). The device supports multiple operating modes including Gateway, AP, WISP, and Repeater Mode. Dual power options are available through IEEE 802.3at PoE+ or DC 12V/2A power input.

Table 1. Specifications

Technical Parameters	Specification
Model	AIRY-AP5000MB
IEEE Standard	IEEE 802.11be/ax/ac/a/b/g/n
CPU	AN7563PT + MT7991A + MT7976CN + EN8811HN
Memory	512MB DDR3 RAM
Flash	128MB NAND Flash
Antenna	Built-in MIMO Antenna (2.4GHz: 2 × 2dBi, 5GHz: 3 × 3.5dBi)
Hardware Interfaces	1 × 10/100/1000/2500Mbps RJ-45 WAN Port with IEEE 802.3at PoE+ support 1 × 10/100/1000Mbps RJ-45 LAN Port 1 × Reset Button (Restore to Factory Default) 1 × DC Power Input
Frequency	Dual Radio 2.4GHz + 5GHz
Wireless Data Rate	2.4GHz: Up to 688Mbps 5GHz: Up to 4323Mbps Total Throughput: Up to 5011Mbps
Wi-Fi Operational Modes	Gateway Mode, AP Mode, WISP Mode, and Repeater Mode
Concurrent End Users	Up to 256
Multiple SSID	Up to 8 SSIDs (4 for 2.4GHz and 4 for 5GHz)
Wireless Security	OPEN, WPA/WPA2-PSK (TKIP/AES), WPA3-PSK (AES)
Access Control Features	Wireless MAC Address Filtering (Whitelist), and Client Isolation

Wireless Features	Band Steering (5GHz Priority), Wi-Fi Schedule, Hide SSID, Transmit Power Adjustment, and QoS (WMM)
Firewall	Built-in Firewall
Management	Standalone WEB GUI Support Backup and Restore Configuration, Firmware Upgrade, Scheduled Reboot, and System Log
Reset	Hardware Reset Button
Power Input	IEEE 802.3at PoE+ or DC 12V/2A
Power Consumption	< 20W
Indicator Light	Red, Green and Blue Status LEDs
Dimension	186mm × 186mm × 36.6mm
Weight	0.55kg
Environmental	Operating Temperature: -10°C to 55°C Storage Temperature: -40°C to 70°C Humidity: 5% ~ 95% (Non-condensing)
ESD Protection	Air: ±8KV, Contact: ±6KV
Electrical Surge Protection	Common Mode: 2KV Differential Mode: 1KV
Warranty Period	2 Year

Table 2. COMMANDO AIRY-AP5000MB LED Indication

LED Indicator	LED Status
Power/SYS	Red ON: Power ON indication.
Wi-Fi	Green ON: Wi-Fi is ready and SSID is available for use.
Activity	Green Blinking: Network data activity indication.
AP Search	Blue Blinking: AP search function indication.

Included in the Bundle/Box

COMMANDO AIRY-AP5000MB comes with the following accessories:

- 1 × COMMANDO AirY Wi-Fi 7 Access Point (AIRY-AP5000MB)
- 1 × Ethernet (LAN) Cable
- 1 × Ceiling Mounting Kit with Mounting Screws

Support and Warranty

- Same-day assistance
- Comprehensive 24-hour support using common communication/chat platforms, Email and Telephone.
- Provide FAQs and troubleshooting help online (self-service) through cloud-based solutions.
- Highly technical and trained representatives to resolve issues.
- Two-year default warranty with option of warranty extension up to 3 years.

COMMANDO WarrantyX Program available on:

<https://www.commandonetworks.com/warranty>

Table 3. Support and Warranty

Warranty and Support	
Products covered	COMMANDO AirY 5000Mbps, 2.5G 802.11be, 4K-QAM MLO MRU, WiFi 7 Access Point
Warranty duration	Two Year RTB (Return To Base) replacement warranty – optionally extendable up to 3 years.
Hardware replacement	COMMANDO, its resellers or its service center will use commercially reasonable efforts to replace the product subject to stock availability. Otherwise, a replacement will be arranged within 15 working days after receipt of the Return Materials Authorization (RMA) request.
End-of-life policy	In case of discontinuation of the product, support is limited to 3 years from announcement date.
Effective date	Hardware warranty commences from the date of shipment to customer (and in case of resale by a COMMANDO reseller, not more than 90 days after original shipment by COMMANDO).
Support duration	Lifetime support.
COMMANDO Care	COMMANDO will provide 24x7 support for basic configuration, diagnosis, and troubleshooting of device-level problems for up to one year from the date of shipment of the originally purchased product. This support does not include solution or network-level support beyond the specific device under consideration.
Online Portal Access	Warranty allows guest access to commandonetworks.com for all available technical queries.

Ordering Information

To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/catalog

Table 4. COMMANDO Indoor AP Ordering Information

Product Code	Product Description
AIRY-AP5000MB	COMMANDO AirY 5000Mbps, 2.5G 802.11be, 4K-QAM MLO MRU, WiFi 7 Access Point
AIRY-AP3000AX	COMMANDO AirY 3000Mbps, 802.11ax OFDMA+MU-MIMO, WiFi 6 Access Point
AIRY-AP1500AX	COMMANDO AirY 1500Mbps, 802.11ax OFDMA+MU-MIMO, WiFi 6 Access Point
AIRY-AP1200	COMMANDO AirY 1200Mbps, 802.11ac Wave 2 MU-MIMO, Access Point

Document History

Release	New or Revision	Described in	Date
Release 1	First Release	First Release	July 1st, 2026