COMMANDO AirONE AIR-AP300 Indoor Wireless Access Points Data Sheet

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Contents

Product Overview
Product Highlights
Features and Benefits
Software
Hardware
Specifications
Support And Warranty
Ordering Information
Document History

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Product Overview

COMMANDO AirONE AIR-AP300 Indoor Wireless Access Point enables communication between wireless and wired computers/laptops and mobile devices in the network. It complies with IEEE802.11N/G/B standard with single band 2.4GHz with separate Fast Ethernet WAN with 48V, 802.3af POE input & LAN port.

It is 4 in 1 mode Access Point with Gateway, Repeater, WISP and Wireless AP mode with range 45 meters and above depending on surrounding conditions with up to 500mW input Power. It is industrial grade Wall/Ceiling PoE Wireless Indoor Access Point with speed up to 300Mbps Wi-Fi speed depending on models, equipped with separate Fast Ethernet WAN & LAN port which enhances the sharing of files, photo, audio, video and gaming experience over wireless network.

It can also be used as DHCP server and works as layer 3 device when configured in gateway mode. It supports (IEEE 802.3af) PoE, 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.

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Product Highlights

• Multiple Operational Modes like Gateway Mode, Repeater mode, WISP mode, AP mode (default mode is AP mode).
• Multi SSID up to 4 with inbuilt WI-FI channel analysis.
• Supports IEEE 802.11b/g/n 2.4GHz Wireless which having single band with radio RF Power up to 27dBm.
• Support wireless RF power adjustable as per user movements from AP.
• Access end users up to 64 max, with concurrent end users up to 50.
• Support tag VLAN and VLAN management.
• Supports intelligent load balance based on users.
• Support seamless roaming and low-rate terminal access.
• Dual purposes WAN or IEEE 802.3af Port (PoE) port supporting 1x 10/100Mbps.
• Dedicated LAN ports 1x 10/100Mbps.
• Supports Wi-Fi client distance 45 meters and above depending on surrounding conditions.
• Dual input for power either PoE or DC power inputs 12V, 1A.
• Support Open or encryption like WPA/WPA2PSK_TKIPAES.
• Plug and Play design simplifies installation with self-adaption.
• Compact, silent design perfect for noise sensitive environments.
• With Zero Touch Provisioning: Plug and play and no setup. Affordable, Easy-to-Use AP for Small Business Networks, with Zero Configuration Required.
• Built-in High-Performance Processor with long life, Suitable for Deployment of Large Scale Commercial Scenarios
• Comes with one-year default warranty – optionally extendable up to 3 years.

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Features and Benefits

Easy to Use

COMMANDO AirONE Indoor AP300 is WEB GUI based easy to use and manage device. It requires minimal configuration, so setup is simple and hassle-free. Auto-negotiation senses the link speed of a network device in wired 10/100Mbps and also for wireless devices intelligently adjusts for compatibility and optimal performance by DFS and setting channel bandwidth 20/40MHz wireless band and also can check free channels available with inbuilt Wi-Fi analysis. Its compact size makes it ideal for Indoor desktops/wall/ceiling with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis. Easy Installation, Plug-and-play installation with no configuration required.

Fast Ethernet LAN speed

It provides and offers a wide range of models for different network deployment requirements with Fast Ethernet speed. These energy efficient AP is well built and rigorously tested and can sustain in very rough environment to provide the reliable performance.

Wireless client supported

Supports up to 64 Max wireless users/clients up to distance of 45 meters and above from AP in all directions.

Network Security

Support Flexible user Access Control Policies, Network Security to meet varied Customer needs. MAC Filtering function to block the access of illegal hosts. Supporting One-Click IP- MAC Binding to avoid ARP spoofing. Access Rules can be applied to permit or deny Wi-Fi users.

Auto MDIX Capabilities

Auto sensing 10/100Mbps ports with auto MDIX capabilities which also removes speed and duplex mismatches automatically.

Compact and Silent Performance

It operates quietly, making it ideal for use in virtually any room or office. Perfect for noise sensitive environments.

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Support uninterrupted critical network infrastructure

It has Dual power options with DC input power and PoE power input which protect from power failures and increases life of device. With this feature protect on cost and the impact to your business by losing these network devices and thus the users/servers connected to them.

Cost Efficient

State of art quality product that can serve on real time high-speed Performance with AC input power, highly reliable, conformance to international open standards, durable, serviceable, aesthetics, perceived quality, enhanced performance leads to value to money.

Green Technology

It features the energy-efficient Ethernet that can save power. It automatically adjusts power consumption according to the link status to limit the carbon footprint of your network. It also complies with RoHS, prohibiting the use of certain hazardous materials. Besides that, most of the packaging material can be recycled and reused.

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Software

COMMANDO AirONE AIR-AP300 Indoor Wireless Access Point supports software functions as follows:

Home

Device Information like CPU Usage, Memory Usage, LAN Information like IP Mode Get IP From AC/Gateway/Static, Status with 2G Wi-Fi, Clients Status with information like SSID, Channel, Bandwidth, Encrypt, MAC Address, Operation Mode configure like AP/ Fat AP Mode with Uptime, Flow in bps for AP Downstream and AP Up stream

Wizard

Gateway Mode, Repeater Mode, WISP Mode, AP Mode (Default Selection)

Wi-Fi

2G Wi-Fi Basic and VAP (1 to 3) ON/OFF, SSID, Hide your SSID, Bandwidth, Channel, Encryption Open/Encryption with WPA/WPA2PSK_TKIPAES, MAC ACL with Add, Delete, Apply with disable/Allow/ Prohibit option, Wi-Fi Timer Off/ON with Time Frame, Advanced setting like Country Region, 2G Channel (1-13), Multicast Fast, Maximum for per AP (Range 1-64), WLAN Partition, Short GI, Coverage Threshold(-95dBm~-65dBm), TX Power, DFS.

Network

LAN Settings with DHCP server option, Static DHCP, VLAN Settings, Cloud Server Settings

Manage

Configure, Reboot, Modify Password, Upgrade, Time, Log

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Table 1. Software functions

Software Function	
Wizard Function	**Gateway Mode:** In Gateway mode, all Ethernet is bridged together, and wireless clients will connect ISP access point or router connecting directly to the Internet via WAN PORT. NAT is enabled and PCs in Ethernet LAN port this is the same IP to ISP through wireless LAN. **Repeater Mode:** In Repeater mode is used to extend the range of wireless coverage of existing Wi- Fi network. This mode is suitable when you is in a Wi-Fi dead-zone or a place with weak wireless signal, and you want to have a larger effective range of the wireless signal throughout your home or office. **WISP Mode:** In WISP mode, the device connects to ISP station or hot spot wirelessly to this is network with local wired and wireless devices. **AP Mode:** In AP mode, the device works as an access point to transform your existing wired network into a wireless network.
Flow in bps	For AP downstream and AP Up stream
Network	LAN Settings with DHCP server option, Static DHCP, VLAN Settings, Cloud Server Settings
Management	Configure, Reboot, Modify Password, Upgrade firmware, Time setting with NTP and from PC, Log, Restore the factory default
Wi-Fi	SSID name setting, Bandwidth, Channel, Encryption options like Open/Encryption like WPA/WPA2PSK_TKIPAES, MAC ACL, Wi-Fi Timer OFF/ON with Time Frame. Advanced setting like Country Region, 2G Channel (1-13), Multicast Fast, Maximum clients for AP (Range 1-64), WLAN Partition, Short GI, Coverage Threshold (-95dBm~-65dBm), TX Power, DFS.

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Hardware

Solid performance with non-blocking architecture

• Up to 16 MB Flash, 128MB RAM

• All ports capable of Fast Ethernet speed. Full speed of data transferring with (Auto-Negotiation/Auto MDI/MDIX).

• Solid performance with non-blocking architecture.

Physical Ports and Networking Interfaces

• Up to 2 x 10/100Mbps Mbps Rj45 Ethernet Ports with combined PoE with WAN and separate LAN port

• LED Indicators: Power, LAN, WAN.

• Reset Button

Extra Long operational life

• High Quality PCB Circuit Board and PCB Surface Treatment Using Gold Sinking Process.

• Support temperature range 0° C to 50° C

• Desktop and Wall mount design Which enables horizontal and vertical wall mounting.

Noise-free Operation

• The ports support reduced power modes for silent operation. Perfect for noise sensitive environments.

Table 2 Hardware Specifications

Hardware Specifications	Hardware Specifications
Standard	IEEE 802.11 b/g/n technology
RAM	128MB
Flash	16MB
Interface	10/100Mbps LAN/WAN
Reset	Hardware button

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Power	DC 12V 1A or IEEE802.3af via WAN
User Capacity	Up to 64
Dimension	168mmX168mmX32mm
Working Temperature	0°C to +50°C
Working Humidity	5%~95%RH (Non-condensing)
Warranty Period	1 Year
Indicator Light	Power, LAN, WAN

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Specifications

Technical Specifications

Supports 2.4GHz, IEEE802.11b/g/n, with Standalone model with Multi SSIDs up to 4 with either open or WPA/WPA2PSK_TKIPAES encryption with Dual option for input Power supply with either 48V PoE (IEEE 802.3af) or DC input power.

Table 3. Specifications

Technical Parameters	Specification
Hardware Specifications	1*10/100Mbps auto-negotiation WAN port or IEEE 802.3af PoE port 1*10/100Mbps auto-negotiation LAN port 1* Reset button/Restore to factory default 1*DC Port
Memory	128MB RAM
Flash	16MB
IEEE Standard	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
Data Transfer Rates	Single band IEEE 802.11b up to 11Mbps IEEE 802.11g up to 54Mbps IEEE 802.11n up to 300Mbps
Frequency	Radio 2.4GHz
Throughput	Up to 300Mbps
Network Functions	802.1q Tag based VLAN, DHCP Server, Static, PPPoE
Wi-Fi Operational Modes	AP, Repeater, WISP Mode, Gateway Mode
Wireless Security	Open or Encryption WPA/WPA2PSK_TKIPAES option
Multiple SSID	Up to 4 SSIDs.
Access control Features	MAC Access Control

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Enclosure Type	Desktop/Wall mounted
Wi-Fi Transmit Power	Up to 27dbm
Input Power Supply	WAN port PoE IEEE802.3af OR DC 12V ,1A
Management	Web based management Backup & Restore to default Settings
ENVIRONMENTAL	Operating Temperature: 0° C to +50° C (+32° F to +122° F) Humidity: 5% to 95% non-condensing Storage and transportation Temperature: - 40° C to +70° C (-40° F to +158° F)
Weight	<1Kg

Table 4. AirONE Series AP Model Comparison

Features	AIR-AP1200	AIR-AP750	AIR-AP300
FIT/FAT Protocol	FIT/FAT AP	FIT/FAT AP	FIT/FAT AP
Flash	16MB	16MB	16MB
RAM	128MB	128MB	128MB
Standard	IEEE802.11AC/N/G/B	IEEE802.11AC/N/G/B	IEEE802.11N/G/B
Distance covered	Up to 91 Meters	Up to 91 Meters	Up to 45 Meters
Size	198mmx198 mmx28mm	188mmX188 mmX50mm	168mmX168 mmX32mm
Max. SSID	Up to 8	Up to 8	Up to 4
End Users	Access end users 128 max, concurrent end users 120	Access end users 128 max, concurrent end users 90	Access end users 64 max, concurrent end users 50

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Table 5. COMMANDO AirONE Series AP LED indication

LED Indicator	LED Status
Power	Green Blinking: Power ON Indication Blue and Blinking: Wi-Fi indication that SSID now available for use.
WAN	Upper LED WAN: Connect with Gateway or PoE devices and Green Blinking shows activity on WAN port.
LAN	Lower LED LAN: Connect to end users and Green ON shows activity on LAN port.

Included in the bundle/box

COMMANDO AirONE AIR-AP300 Indoor Access Point comes with following Accessories:

- 1 x COMMANDO AirONE Indoor AP300
- 1 x Patch Cord
- 1 x Wall Mount with Mounting Screws
- 1 x LAN cable

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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.
• One-year default warranty with option of warranty extension up to 3 years

COMMANDO WarrantyX Program available on: www.commandonetworks.com/warranty

Table 6.Support and Warranty

Warranty and Support	
Products covered	COMMANDO AirONE AIR-AP300 Wireless Access Point
Warranty duration	One 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 Cis	COMMANDO will provide 24x7 support for basic configuration, diagnosis, and troubleshooting of device-level problems for up to one

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	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.

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Ordering Information

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

Table 7. COMMANDO AirONE AP300 Ordering Information

Product Code	Information
AIR-AP300	COMMANDO AirONE 300Mbps, 2.4GHz, 802.11n, MIMO, Indoor Access Point

Document History

Release	New or Revision	Described in	Date
Release 1	First Release	First Release	July 15, 2021

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