AIR-R3000AX

COMMANDO AirPRO, 2976Mbps, SD-WAN, Multi-WAN, LB/FW/VPN, Cloud Enterprise WiFi-6 Wireless Router

Data Sheet

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Product Overview

COMMANDO AIR-R3000AX is Cloud Enterprise, WiFi-6, Multifunctional Router with, 4*10/100/1000M Gigabit Ethernet, Configurable LAN/WAN Ports, Wi-Fi 6 AP with Wireless Roaming Mechanism (802.11r), Load Balancing, Authentication Server to Integrate and Simplify the Traditional Networking Mode, AC Management, Portal Authentication, Deep Packet Inspection (DPI) Seven-Layer flow Control, Supports Intelligent Networking (SD-WAN), 3000+ Application Protocol Identification.

It is 6 in 1 Multi-functional device having feature like WiFi-6 AP, Multi WAN load balancer with auto failover mechanism, Firewall, VPN, Cloud based authentication, configuration and monitoring, Enterprise Wired Router, It is a multifunctional Wi-Fi 6 wireless router designed for small business offices, chain stores and other environments. It supports 802.11ax and is compatible with 802.311a/b/g/n/ac/ax with maximum wireless rate can reach 2976Mbps. It provides users with high-speed Wi-Fi network access and meets requirements of various usage scenarios. It supports SD-WAN, multi-WAN, DPI flow control, Internet behavior management, multiple authentication methods, firewall, VPN, cloud management functions.

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Product Highlights

- 4*10/100/1000Mbps configurable LAN/WAN Ports.
- Supports IEEE 802.11ax/ac/b/g/n/a with backward compatibility for wireless clients, 2.4GHz+5GHz Wireless dual band.
- Supports fast MESH deployment, master-slave deployments of multiple devices, allowing quick expansion of Wi-Fi coverage.
- Supports OFDMA technology, each frame transmits data for multiple users to greatly improve Wi-Fi efficiency.
- Supports TWT technology, router itself is able to manage terminal hibernation and transmitting time, to ease multiple terminals competing for wireless channel resources, and to improve terminal endurance, power saving.
- Supports BSS coloring, only Wi-Fi with same color code will be competing resources with each other, to avoid Wi-Fi interference within the same channel and to improve channel utilization as well as data transmission efficiency.
- Standard Wireless Roaming Mechanism (802.11r).
- Supports wired MESH networking mode, by setting one device as master, other devices will be automatically set to slave, and will be auto configured.
- WAN: Multiple WANs, Failover/ Load Balance, Configurable Ethernet
- DPI (Deep Packet Inspection) with Seven Layer Flow Control.
- Support One Click Flow Control and Manual Flow Control
- 3000+ Application Protocol Identification, for more Accurate Flow Control, Improved Bandwidth Utilization
- Access Point Management via console and Could-based Portal Authentication.
- AC Intelligent Management Functions work together with COMMANDO Access Points, easy Access Point Management.
- Support COMMANDO Platform Management, Centralized Management and Maintenance via Cloud base account.
- VPN for Encrypted Communication, Ensure Remote Access Security.

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- Support Multi-Vendor WAN Line simultaneous Access, WAN load balancing by Different ISP, Rational use, Load Balancing, Reduce Bandwidth Costs.
- Wireless Marketing Function, High Authentication Methods to meet the needs of Different Users and Scenarios.
- Tag based and port based VLANs to group control and relocate traffic pattern.
- Fully protocol stack for both IPv4 and IPv6, afford to 120+concurrent users and 100,000 concurrent sessions.
- IPsec, PPTP and L2TP VPN support up to 64 concurrent tunnels.
- Built-in High-Performance Processor Suitable for Deployment of Large Scale Commercial Scenarios.
- QoS and Bandwidth Management for optimal bandwidth usage.
- Affordable, Easy-to-Use router for Small Business Networks, with Zero Configuration Required
- High Availability for mission critical application with muti-WAN load balance and VPN tunnel failover, also VRRP for device redundancy.
- User certification by X.509 and authentication by Radius/AD/LDAP server for user and group management.
- Ethernet: Dynamic IP, Static IP, PPPoE, PPTP, L2TP
- IPv6: Dual Stack, 6-in-4, 6-to-4, Dynamic, Static, PPPoE.
- VLAN: Port Based, Tag- based.
- NAT: ALG, Special AP, DMZ Host, Virtual Server/ Computer, PPTP/ L2TP/IPSec Pass-through, Up to 100,000 Sessions.
- Routing: Static and Default.
- Client & Server: DHCP, DDNS, IGMP.
- Management Features with Web, Simple Telnet CLI, SNMP.
- AP: Auto Discovery, Monitoring & Alerting, Profile based Configuration, AP Load balance.

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- User Accounts, User Grouping, Bound Services.
- Firewall: SPI Firewall with Stealth Mode, IPS.
- Access Control with Packet Filters, URL Blocking, Web Content Filters, Application Filters, MAC.
- Support One Click Smart Flow Control and Manual Flow Control.
- Access Point Management and Portal Authentication.
- AC Intelligent Management Functions work together with COMMANDO Access Points, easy Access Point Management.
- With Zero Touch Provisioning: Plug and play and no setup.
- Comes with one-year default warranty – optionally extendable up to 3 years.

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Features and Benefits

Multi-functional

The AIR-R3000AX integrates functions AP + Router with DPI flow control, load balancing, AC, VPN, and authentication server to integrate and simplify the traditional networking mode. It is equivalent to integrating multiple devices and a unified network management platform into one device, greatly reducing User networking and maintenance costs.

Deep Packet Inspection

COMMANDO Wired Router supports Multi-line, Each line is backed up with Each other. It cooperates with a new Generation of DPI-based Traffic Identification Mechanism, and Fine Traffic Control with Link Balancing and Application Offloading to offload Core Applications.

Wi-Fi 6 Technology

The IEEE 802.11ax is a emerging standard, also known as High-Efficiency Wireless (HEW) or Wi-Fi 6, builds on 802.11ac. Equipped with the latest and fastest Wi-Fi 6 (802.11ax) technology, Multi-User (MU) Orthogonal Frequency Division Multiple Access (OFDMA). This subdivides the Wi-Fi channel into smaller frequency allocations (called Resource Units). Spatial reuse also known as BSSID coloring allows the access points and their clients to differentiate between other SSID, thus permitting more simultaneous transmissions. This capability permits an Access Point to synchronize communication with multiple individual client devices at the same time on the uplink and downlink when it comes to sending and receiving small packets of data. Supporting two spatial streams, MU-MIMO enables access points to split spatial streams between client devices to maximize throughput. It has 1024-QAM modulation signals which is better at penetrating solid objects like walls.

Cloud Base Wired Router

It is 4* 10/100/1000M configurable and interchangeable LAN/WAN Port which support up to 32 AP & 120+Users with standard Wireless Roaming Mechanism (802.11r) with DPI (Deep Packet Inspection) Seven Layer Flow Control along with Portal based web access from anyone having credential via internet from any place. Support

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COMMANDO Platform Management, Centralized Management and Maintenance VPN for Encrypted Communication, Ensure Remote Access Security

Multi-WAN load balancing with auto Fail over Mechanism

Support up to 4 configurable WAN Multi Line Access, Simultaneous access by different Operators with all used at a time via load balancing and preventing network outage automatically via fail-over mechanism , Rational use, Reduce Bandwidth Costs.

Wireless Marketing Function

High Authentication Methods via cloud based, time based, ticket based to meet the needs of Different Users and Scenarios, Multi-functional Fusion. COMMANDO Integrates Functions Such as DPI Flow Control, Load Balancing, VPN, and Authentication Server to Integrate and Simplify the Traditional Networking Mode. Equivalent to Integrating Multiple Devices and a Unified Network Management Platform into one Device, greatly reducing Networking and Maintenance costs.

Network Security

Built-efficient Behavior Management Routing and Firewall Modules, Support Flexible user Access Control Policies, Network Security, Network security to meet Different Customer needs.

VPN（Virtual Private Network）

Support IPsec, PPTP, L2TP and Open VPN, Allowing Offices in Different Regions of the Enterprise to Access ERP, CRM, Internal Server, and other Production Systems of the company's Local Area Network at Any Time to Improve Work Efficiency. Out-of-office Employees can Access the Company's internal Network Resources through Secure Channels anytime and anywhere.

Fast MESH

Supports wired MESH networking mode, by setting one device as master, other devices will be automatically set to slave, and will be auto configured. Then, slave devices can also be managed by AC management, like APs.

Auto MDIX Capabilities

Auto sensing, 10/100/1000Mbps RJ45 Ports with auto MDIX capabilities which also

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removes speed and duplex mismatches automatically as well as covers larger physical distance with copper pairs compared to other brands.

Compact and Silent Performance

It comes fanless models with Small form-factor, operates quietly, making it ideal for use in virtually any room or office. Perfect for noise sensitive environments.

Support uninterrupted critical network infrastructure

It has DC input power which protect from power surges through their inline power supply automatically and have in build Surge protection of ±4KV. 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.

Easy to Use

COMMANDO AIR-R3000AX Series router are easy to use and manage. All ports are Plug-and-Play devices that requires zero configuration, so setup is simple and hassle-free. Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports. Auto-Negotiation on each port senses the link speed of a network device (Either 10, 100 or 1000Mbps) and smartly adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops as well as rackmount with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis.

Cost Efficient

State of art quality product that can serve on real time high-speed Performance with DC 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

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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 AIR-R3000AX Cloud Base Multi-Functional Wired Router supports software functions as follows.

Monitoring-->Interface, Terminal, Protocol, Policy, System, Flow Control.

System Setup-->Basic Setting, Disk management, Cloud Account, Advanced Settings like ALG Set, Administration, Upgrading, Reboot.

Network-->Interfaces, DHCP, DNS, IP/MAC Group, Static Routes, VLAN, VPN Client, UPNP, NAT, Port Mapping, IPv6, IGMP Agent.

Flow Control-->Multi-WAN features Load Balancing/Protocol/Port Forward/Domain Name/Upload/Download, Smart Flow Control, IP/MAC Limiters, Protocol Library.

Authentication--> Captive Portal, VPN Server, Auth Account, Push Notification.

Behavior-->Behavior Audit with Mark MAC Address, MAC Control, Website Control, URL Control, Application Protocol Control, Secondary Routing, QQ, Blacklist/Whitelist.

Firewall-->ACL Rules, ARP binding, Connection Limiter, Advanced Firewall.

Advanced application-->Dynamic DNS, SNMP, Application across three layers, Wake on LAN, FTP Server, HTTP Server, UDPXY Set.

Services-->Ping Test, Capture Packet, Trace Route, IP Subnetting, Speed Test, Diagnostics, Watchdog.

Log-->User Logs, Function Logs, System Logs.

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Table 1. Software functions

Function	Functional Description
	The interface supports PPPoE, static IP, and DHCP access modes.
	Supports both IPv4 and IPv6 protocol
	Supports LAN/WAN customization settings and VLAN
	Supports multiple WANs at the same time to achieve bandwidth overlay
	Support load balancing based on IP, port, number of connections
	Line backup: one main line and one spare line to ensure connectivity
	Support for multi-dialing for the same ISP and WAN expansion
	Support port mapping, DMZ, UPnP, NAT, IGMP
	Support PPTP/L2TP/IPSec VPN/Open VPN/IKEv2/IPSec
	Support for gateway and bypass deployment
	One-button intelligent flow control: Select a preset scenario to enjoy bandwidth optimization accordingly. Also supports customized flow control.
	Identifies more than 3000 application protocols, assign priorities and line orientations to various application protocols, and real-time database update to achieve precise flow control based on application protocols.
	Supports scheduled flow control based on source IP, port, domain, and time.
	Supports network control sharing, such as secondary routing device
	Support behavior management log viewing, including URL logs, IM software on-offline records, terminal on-offline records
	Supports scheduled time and group of PC and mobile APP application management policies, domain blacklist and whitelists, URL transfers, URL keywords and parameter substitution.
	Supports multiple device authentications
	Supports for authentication-free settings based on MAC, IP, and domain
	Supports local PPPoE server and third-party authentication servers.
	Supports multiple authentication template selections, custom images and logos
	Supports batch import and export of custom deals, coupon management, and users' password modifications.

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and Billing	Support cloud platform authentication, support various kinds of authentication methods, such as mobile, user, password, countdown, coupon, trial, one-click authentications. Supports real-time, scheduled, account/PPPoE expiry notifications. Supports proxy dialing service
	Supports defense against ARP attacks and improves intranetsecurity.
	Supports global connection limit and can be set separatelybased on time and IP
	Supports ACL rules based on IP, protocol, port, time period,data direction, and interface
	Supports DDOS defense and traffic attack defense, support internal and external network ban ping, prohibit intranet clientTracert.
	Supports wake on LAN, UDPXY
	Supports dynamic domain names, including 3322, oray, dnspod,aliyun
	Supports speed test, router self-check, health monitoring, subnet conversion, packet sniffing tool.
	Supports cross-layer applications, support cross-layer authentication, mac address filtering, etc.
	Supports for scheduled reboot, Ping, Tracert
	Supports SNMP, Telnet, ssh, http, and https access
	Supports user logs, function logs, system log records Supports MAC address filtering Supports multiple login levels authorizations
	Supports configuration and delivery of managing devices through cloud management
	Supports batch delivery of wireless rules in the cloud, including SSID, SSID hiding and isolation, AP equalization mode, and wireless security settings.
	Supports configurations backup on cloud.
	View information such as device name, device online status, user data, online duration, and number of terminals, etc. on the cloud.

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Hardware

Solid performance with non-blocking architecture

- CPU ARM Dual Core.
- All ports capable of Gigabit 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 4 x 10/100/1000 Mbps RJ45 Ethernet Ports with Max. 3 WAN and Max.3 LAN port configurable.
- LED Indicators :Power, Link/Act, SYS

Extra Long operational life

- High Quality PCB Circuit Board and PCB Surface Treatment Using Gold Sinking Process.
- Support temperature range 0℃to +40℃
- Surge protection up to ±4KV to designed to automatically protect router from surge events by limiting transient voltages and diverting surge currents.
- Long life electrolytic capacitance to increase the operational life of router. RJ45 Gold plated with 3U thickness.
- Desktop design and also having durable robust body.

Noise-free Operation

- The ports support reduced power modes so that ports not in use can move into a lower power utilization state. Small form-factor, fanless for silent operation. Perfect for noise sensitive environments.

Enterprise High reliability design and high quality product

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- Very high Quality as for all Mean Time Before Failure of system, MTBF >2,00,000 hours
- Stability: 64-bit packet, time delay < 10us, packet loss rate: 0
- Restorability of Network shaking or device breakdown, restart(recovery) time < 60sec.
- RoHS Compliant with most of the packaging material can be recycled and reused.

Table 2. Hardware Specifications

HARDWARE SPECIFICATION	
RAM	512MB
Flash	128MB
Interface	4* 10/100/1000Mbps Ports
Reset	Hardware Reset button
Power	DC 12V, 1A
Power Consumption	≤12W
Wireless Speed	2976Mbps (2.4G:574Mbps 5.8G:2402Mbps)
Protection Level	IP30

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User Capacity	120+
Dimension	246mmx148mmx184mm
Working Temperature	0℃to +40℃
Working Humidity	5%～90%RH (Non-condensing)
Warranty Period	1 Year
Indicator light	Power, SYS, Link/ACT

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Specifications

COMMANDO AIR-R3000AX Cloud Base Multi-Functional Wired Router with Wi-Fi6 AP having 4* 10/100/1000 Mbps configurable LAN/WAN Ports, with maximum 3 configurable LAN ports and Maximum 3 configurable WAN ports along with Standard Wireless Roaming Mechanism (802.11r), Load Balancing, Authentication Server to Integrate and Simplify the Traditional Networking Mode, AC Management, Portal Authentication, Deep Packet Inspection (DPI) Seven-Layer flow Control, Supports Intelligent Networking (SD-WAN), 3000+ Application Protocol Identification, 6 in 1 Multi-functional router with Firewall, Wi-Fi 6 AP, VPN, Cloud Enabled, Enterprise Wired Router.

Table 3. Specification

Specification	Information
Interface	4* 10/100/1000Mbps Port
RAM	512MB
Flash	128MB
Power	DC 12V, 1A
Max Power Consumption	≤12W
Wireless Speed	2976Mbps
User Capacity	120+
AP Capacity	32
Protection Level	IP30
Indicator light	Power, SYS, Link/ACT
	The interface supports PPPoE, static IP, and DHCP access modes.
	Support LAN/WAN customization settings, support VLAN
	Support bandwidth overlay and access multiple WANs at the same time to achieve bandwidth overlay
	Support load balancing based on IP, port, number of connections, and traffic
	Line backup: one main line and one spare line
	Support for multi-line and wan expansion
	Support port mapping, DMZ, UPnP

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	Support PPTP/L2TP/IPSec VPN/Open VPN function
	Support for gateway and bypass deployment
	Data offload: line assignment based on source IP, destination IP, source port, destination port, domain name, and application protocol
	Supports flow control based on source IP, port, domain name, and time for line time.
	Flow control module: It can accurately identify more than 3000+ application protocols, assign priorities and line orientations to various application protocols, and the database supports real-time online update to achieve precise flow control based on application protocols.
	One-button intelligent flow control: only need to select the flow control scenario and set the WAN bandwidth.
	Support network share control, such as secondary routing
	Support behavior management log viewing, including URL logs, IM software online and offline records, terminal online and offline records
	Supports time and packet-based PC and mobile APP application management policies, support for domain name blacklist and whitelists, URL jumps, URL keywords and parameter substitution.
	Support multiple device authentication roaming
	Support for authentication-free settings based on mac, IP, and domain name
	Supports local PPPoE Server and supports docking third-party authentication servers
	Support multiple authentication template selections, support custom scrolling images and logos
	Support batch import and export, support custom packages, support coupon management, support account password self-modification password.
	Support cloud platform authentication, support 10 kinds of authentication methods, including WeChat, mobile phone, QQ, Microblog, user, password, countdown, coupon, trial, one-click authentication.

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Authentication and Billing	Supports defense against ARP attacks and improves intranet security.
	Support global connection limit and can be set separately based on time and IP
	Supports ACL rules based on IP, protocol, port, time period, data direction, and interface
	Support DDOS defense and traffic attack defense, support internal and external network ban ping, prohibit intranet client Tracert.
	Supports network wake up
	Support dynamic domain names, including 3322, oray, dnspod, aliyun
	Support line test, route check, health monitoring, subnet conversion
	Support cross-layer applications, support cross-layer authentication, mac address filtering, etc.
	Support for scheduled restart ,Support Ping, Tracert
	Support SNMP, Telnet, http, https management
	Support user logs, function logs, system log records
Working Temperature	0℃ to +40℃
Working Humidity	10%～90%RH（Non-condensing）
Dimension	246mmx148mmx184mm

Table 4. LED Indication

LED Indication	LED Status
Power	**Green OFF:** No Power Supply. **Green ON:** The router is powered ON.
Link/Act	**LINK/ACT bi-color LED:** **OFF:** Port disconnected or link fail. **Green ON:** 1000Mbps connected. **Amber ON:** 10/100Mbps connected.

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	Green Flashing: 1000Mbps connected and Data in transit **Amber Flashing:** 10/100Mbps connected and Data in transit
System	**Green OFF:** The system is starting, please wait **Green ON:** The system is up and running

Included in the bundle/box

All COMMANDO AIR-R3000AX are made available for use globally along with accessories in the bundle to facilitate for enhance operations.

COMMANDO AIR-R3000AX box comes included with the following accessories:

1× AIR-R3000AX Wi-Fi 6 Wireless Router
1x Power cable
1x Console cable
1x Rack/Wall mountable kit

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Support and Warranty

AIR-R3000AX come with replacement warranty and provided support according to COMMANDO WarrantyX Program available on:
www.commandonetworks.com/warranty

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Ordering Information

Table 6 lists ordering information for the AIR-R3000AX. To place an order, please contact your local reseller/distributor or COMMANDO Sales Representative at www.commandonetworks.com/catalog

Table 6. Ordering Information

Ordering Information	
Product Code	Description
AIR-R1200-4G	COMMANDO RoutePRO, 1167Mbps, Dual Band, Cloud Enterprise 4G Gigabit Router
AIR-R3000AX	COMMANDO AirX, 2976Mbps, 4GE, 32AP/120 Users, SD/Multi WAN, DPI/FW/VPN, Wi-Fi 6 Cloud Enterprise Router

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Document History

Release	New or Revision	Described in	Date
Release 1	First Release	First Release	December 25, 2023

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