

Product Specification

Model: EAC500



一、 Brand & Manufacturer Information

Brand: Neutral

Manufacturer: Yuncore

LOGO: Neutral

二、 Model & Version

Model: EAC500

Version: V1.3

三、 Key Features

EAC500 is a medium-to-large enterprise gateway based on the CAPWAP protocol.

- Equipped with 6 × 2.5Gbps Ethernet ports, WAN/LAN interchangeable, configurable multi-WAN. Features include WAN load balancing, multi-ISP access, line backup, bandwidth aggregation, and policy routing.
- Supports intelligent traffic control, internet behavior management, network firewall, VPN configuration, and remote access control management.
- Supports up to 750 concurrent terminal users, provides high-speed network, maximizes defense against network storms, and ensures normal network operation.
- Can function as the main router or bypass AC, managing and configuring up to 750 thin APs. Supports remote management and maintenance — administrators can monitor, manage, and configure the EAC500 dashboard anytime from different cities or networks. High performance, easy installation and maintenance, significantly reducing labor and

material costs in network deployment.

- EAC500 can serve as an authentication gateway connecting to the cloud platform, supporting user authentication, SMS authentication, and other authentication methods.
- Wide application scenarios: small and medium enterprises, urban villages, hotels, internet cafes, shopping malls, etc.

四、 Product Functions

1. Multi-WAN & Multi-WAN Load Balancing

- EAC500 supports PPPoE/DHCP/Static IP/PPTP access, compatible with multiple ISPs including China Telecom, China Unicom, and China Mobile.
- Supports multi-WAN, multi-WAN load balancing, line backup, and bandwidth aggregation for a more stable and faster network.
- EAC500 supports policy routing based on IP address, MAC address, network interface, domain name, and other rules.

2. Cloud Platform Access & Authentication

EAC500 supports cloud platform access in both gateway mode and AC mode. In gateway mode, it supports multiple authentication methods such as user authentication and SMS authentication, making the network layout more professional and enabling advertising opportunities.

3. AP Management Features

- Zero-Configuration & Grouping

Add a zero-configuration group before deploying wireless APs — APs automatically obtain configurations from the group without additional setup, simple and convenient. Different groups can

be created across the network, with configurations pushed to corresponding APs in each group.

- Built-in Intelligent Channel Analyzer

EAC500 features a built-in intelligent channel analyzer that helps wireless APs detect and analyze channels of surrounding wireless sources, enabling APs to select the least interfered channel for the most stable wireless coverage.

- Automatic IP Address Assignment for APs

EAC500 has a built-in DHCP server that automatically assigns IP addresses to wireless APs, avoiding IP address conflicts and reducing manual configuration costs.

4. Intelligent Traffic Control

- One-click intelligent traffic control

Simple and worry-free intelligent traffic control, enabled with just one switch.

Based on traffic volume and traffic feature recognition technology, with algorithms for fair processing and network latency control.

Balanced internet experience for downloads, video, gaming, and web browsing — fast downloads, stable gaming latency, and quick web page loading.

- Powerful multi-line traffic distribution

Supports up to 180 external WAN lines per unit for access and traffic distribution.

Supports two distribution modes: IP-based and session-based, with bandwidth aggregation without disconnection.

Process-based traffic distribution, clean and thorough separation.

Powerful distribution rules based on combinations of IP address, time, port, routing table, application, and distribution weight to meet various traffic distribution needs.

➤ Automatic priority adaptation

Under bandwidth constraints, application prioritization gives priority to gaming and web applications — even heavy P2P downloads won't affect user experience.

➤ Policy-Based Bandwidth Control

Precisely limit maximum traffic per line for specific users based on IP address, authenticated users, user levels, user groups, and time conditions.

➤ Connection Limit Control

Precisely limit maximum TCP/UDP connections for specific users based on IP address, authenticated users, user levels, user groups, and time conditions.

➤ Powerful Firewall & User Management

Layer 7 firewall module allows configuration of allow/block policies based on address, user, level, department, combined with time, destination address, and destination port conditions.

Policy control for specific applications, ports, and external WAN lines.

Additional features include port forwarding, source NAT, and internal DDoS protection.

IP-MAC binding prevents internal ARP attacks.

View online QQ numbers on the internal network and control access for specific QQ accounts.

5. Others

EAC500 supports real-time network speed monitoring, VPN, static IP, DDNS, etc.

五、 Hardware Specifications

Platform	
Form Factor	1U Rackmount
Processor	Intel J6412 Quad-Core Processor, 10nm, 2.0GHz, 1.5M Cache
CPU Type	Soldered

Chipset	SoC
BIOS	UEFI BIOS
System Memory	
Memory Type	1× 3200MHz DDR4 SO-DIMM
Memory Capacity	8GB
Storage	
Interface	1× 6Gb/s SATA connector
CF	1× CF Typell slot, default 1GB SLC CF card
HDD	Supports 1× 2.5" HDD bracket with shock absorption
mSATA	1× mSATA SSD slot (alternative to CF)
Network	
Network Interface	6× 2.5GbE RJ45 ports
Network Chip	Intel KT1225V Network Controller
Network LEDs	RJ-45 port with tab on top, built-in LEDs Left Link/Act LED: Green solid on when linked, green blinking when active Right Speed LED: Orange at 2.5G, green at 1000M, off at 100M
SFP Port	2× external auto-negotiation 1G SFP ports
SFP Controller	Based on Intel NHI350AM2 Ethernet controller
SFP LED	Green LED: Solid on when linked, blinking when data active
External Interfaces	
USB	2× standard USB 3.0 ports
Serial Port	1× Console serial port, RJ45 interface
Power Button	Rear panel, ATX power switch
LED Indicators	4-layer LED:
	Layer 1: HDD LED: Yellow, blinking when data read/write
	Layer 2: Power LED: Green, solid on when powered
	Layer 3: Green, SFP1 port LED Layer 3: Green, SFP2 port LED
Internal Interfaces	
Display	1× internal DB-15 VGA display port, hot-swappable
USB	2× internal USB 2.0 pin headers
Serial Port	1× internal RS-232 pin header, supports LCM display module expansion
Watchdog	Supports 1~255 second programmable software watchdog, system reset supported
Digital I/O	8-channel digital I/O (4 input / 4 output)
Chassis	
Chassis Color	Black, sand texture paint
Front Panel	Silver PVC, matte finish
Dimensions (L×W×H)	294 × 430 × 44.5 mm
Chassis Material	Sheet metal, SGCC, 1.2mm thickness
Chassis Inner Surface	Natural metal color, anti-oxidation treatment on cut edges
Chassis Mounting	1U rack mount ears

Screws	Nickel-plated screws for cover, double-washer lock screws for internal motherboard
Cooling	Fanless cooling module on motherboard 1× system fan
Power Supply	
Power Type	Built-in open-frame power supply
Power Output	65W
Power Input	AC 100V-264V universal AC input
Dimensions, Environment & Certification	
Outer Carton Dimensions	535 × 400 × 175 mm (L×W×H)
Inner Box Dimensions	520 × 385 × 150 mm (L×W×H)
Net Weight	5.5 kg
Gross Weight	6.5 kg
Operating Temperature	0°C ~ 50°C
Storage Temperature	-40°C ~ 70°C
Operating Humidity	5% ~ 85% RH, non-condensing @ 40°C
Storage Humidity	5% ~ 95% RH, non-condensing

六、 Software Features

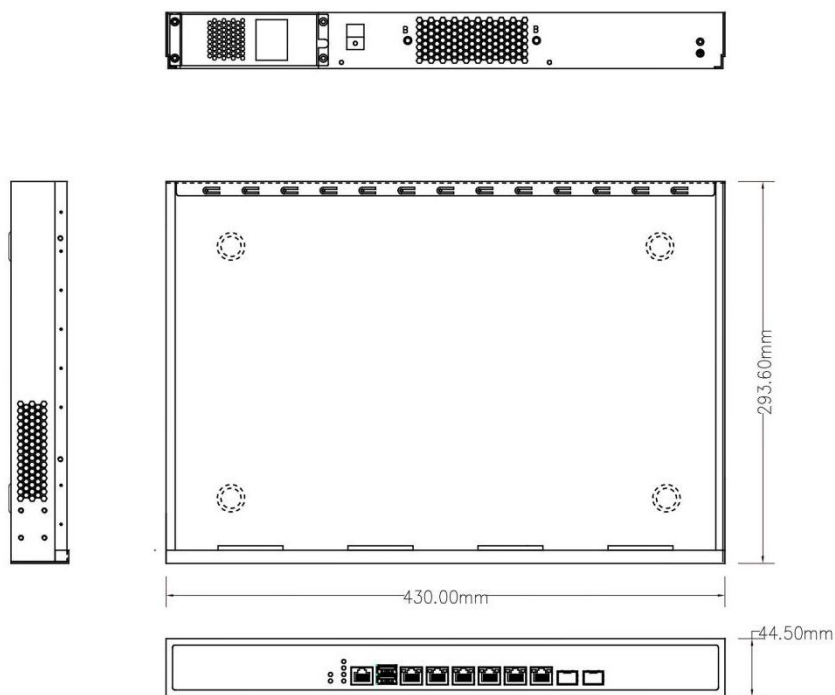
AP Management	Max managed users: 750
	Max managed APs: 750
	Centralized and remote management, AP configuration
	User status monitoring
Intelligent Traffic Control	One-click intelligent traffic control
	Powerful multi-line traffic distribution
	Automatic priority adaptation
Load Balancing	Multi-WAN, multi-ISP access
	Intelligent load balancing
	Line backup
	Bandwidth aggregation
	Policy routing: Based on source IP, destination IP, source MAC, network interface, domain name, destination port, WAN interface, identity binding, etc.
	Protocol binding

	Online detection
Routing Functions	Static routing
Behavior Management	Comprehensive P2P software blocking
	P2P traffic control and bandwidth allocation
	File transfer and URL filtering
	Full control over network behavior
Bandwidth Control	IP-based bandwidth control
	Guaranteed/limited bandwidth
	Time-based policies
	IP-based session limit
Security Center	MAC address filtering
	URL/keyword filtering
	Web content filtering
	IP address filtering
	Port forwarding
	DMZ
Defense Center	TCP/UDP/ICMP flood defense
	Block TCP scanning
	Block PING on WAN ports
ARP Detection	GARP packet transmission
	ARP scanning on WAN/LAN ports
	IP-MAC binding
Authentication	Local authentication (SMS authentication, user authentication)
	Remote authentication (SMS authentication, user authentication)
Management	Web/CLI/Telnet management access
	Remote authentication (SMS authentication, user authentication)
Others	DDNS, VPN management

七、 Interface Diagram



八、 Dimensions Diagram



九、 Package Contents

Main Unit × 1

1.5m GB Standard Power Cord × 1

Straight-through Ethernet Cable (for switch connection) × 1

Accessory Box (rack mount ears, rubber feet, screw kit) × 1

User Manual × 1