



■ Overview

The RS-WCL-500 Wireless LAN Controller and Gateway is a high-performance networking solution designed for large enterprise environments, integrating both routing and wireless access control (AC) functions into a single platform based on the CAPWAP protocol. The device can centrally manage and configure up to 256 thin access points (APs) and a total of 256 network devices, while supporting 256 concurrent online users. Equipped with 4 Gigabit LAN ports, 1 Gigabit WAN port, 1 USB port, and 1 Console port, the RS-WCL-500 provides flexible connectivity options. Its standard 1U rack-mount design and 100V–264V AC wide-range power input make it suitable for deployment in enterprise network rooms and data centers.

The device supports multi-WAN configurations, including WAN load balancing, line backup, policy-based routing, and network overlay functions, ensuring high availability and reliable connectivity. Advanced features such as intelligent traffic control, online behavior management, integrated firewall protection, VPN services, and remote access control help optimize network performance and security. The RS-WCL-500 can be deployed as either a primary router or a bypass AC, allowing administrators to remotely monitor, manage, and configure network parameters across different locations. With its high performance, easy installation, and centralized management capabilities, it is an ideal solution for small and medium-sized enterprises, hotels, shopping malls, internet cafés, and other commercial environments.

Models	RS-WCL-500
Hardware Specification	
Flash	16MB
Memory	512MB
Max. Managed APs	256 AP
Physical Ports	WAN: 1 × 1GbE RJ45 port LAN: 4 × 1GbE RJ45 ports (3 switchable to WAN)
Management Interfaces	1 Console serial port, RJ45 interface, USB3.0, Reset button
Power Supply	Fixed One AC Power, Input Voltage (AC): 100-264V, 50-60Hz
Size	1U Rack mounted, 440mm x 220mm x 44.0mm
Power Lightning Protection	6KV for both common mode and differential mode are 6kV
Temperature	Work temperature: 0-50 °C
	Storage temperature: -40-70 °C
Humidity	Work humidity: 5-90%, no-condensing
	Storage humidity: 5-95%, non-condensing

Software Features	
AP Manage	Maximum management users: 256
	AP manages 256 devices
	Centralized and remote management, configure wireless AP
	View user status, built-in intelligent channel analyzer
Intelligent Flow Control	One-click intelligent flow control,
	Network Layer 7 Firewall, VPN Setup, Remote access control management, powerful multi-line diversion, IP-MAC binding
	Apply priority automatically

Routing Function	Static routing
Behavior	P2P software is completely blocked.
	P2P Flow Control and Bandwidth Allocation
	File transfer and URL filtering
	Complete control over online behavior
Bandwidth Control	Bandwidth Control Based on IP
	Bandwidth Guarantee/Restriction
	Time strategy
	Session-based IP-based restriction
Security Center	MAC address filtering
	URL/Keyword Filter
	Web content filtering
	IP address filtering
	port forwarding
	DMZ
Defence Center	TCP/UDP/ICMP flood defense;
	Block TCP scan
	Block the ping WAN port
ARP check	Send GARP packets
	ARP scan of WAN/LAN ports
	IP-MAC binding
Authentication	Local authentication (SMS authentication, user authentication)
	Remote authentication (SMS authentication, user authentication)
Manage	Web/CLI/Telnet management portal, PPPoE/DHCP/static IP/PPTP
	DDNS, VPN management, Real-time network speed monitoring

Load Balancing	Multi-WAN, multi-carrier access
	Intelligent load balancing
	Line backup
	Speed overlay
	Policy routing: Based on source IP address, destination IP address, source MAC address, network interface, domain name, destination port, external network interface, and identity binding policies
	Protocol binding, Online testing

Model	Description
Order Information	
RS-WCL-500	RS-WCL-500 up to 256 Units AP support wireless controller, 1 × 1GbE RJ45 port WAN, 4 × 1GbE RJ45 ports LAN (3 switchable to WAN), one AC Power Supply, .

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