▍ Overview

RS-WCL-500 is a multi-service wifi controller device developed by Rubisec. It has powerful functions which integrated intelligent routing, switch, wireless control, accurate flow control, anti-attack, Internet behavior management, IPsec VPN, local portal authentication features in one box, and supports docking with Rubisec cloud managed platform to realize remote operation and maintenance and centralized management. It well meets the comprehensive customer requirements such as government, hospital, education, hotel, restaurant, supermarket, chain store and other scenarios.

RS-WCL-500 wifi controller device can centrally manage AP and wireless client, providing rich service types. It has the advantages of high-performance, full-integrated, high-service integration, high-reliability and high-security, and fully meets the needs of customers in various industries for the complete integration of wired and wireless networks. The unified management of RS-WCL-500 makes the WLAN network easy to manage and maintain to meet the deployment needs of various services.

RS-WCL-500 wifi controller device has rich software features, which can provide wireless users with load balancing, auto fault recovery, intelligent RF management, fast roaming and other functions. In addition, the web configuration interface can be used for convenient configuration and deployment without the complex operation of the traditional command line. The maintenance personnel can complete the configuration in only few minutes.

Models	RS-WCL-500
Hardware Specification	
Flash	4G
Memory	1G
Performance (1500Byte)	1-1.2Gbps
Max. Managed APs	Gateway mode: 64 Units
	Controller mode: 128 Units
Physical Ports	8*10/100/1000M RJ45 + 2*1000M SFP
Management Interfaces	One Console Port, One USD2.0 Port
Power Supply	Fixed One AC Power, Input Voltage (AC): 100-240V, 50-60Hz
Dimension(W*D*H)	440*330*44.2mm(1U)
Power Lightning Protection	6KV for both common mode and differential mode are 6kV
Temperature	Work temperature: 0-45 °C
	Storage temperature: -40-70 °C
Humidity	Work humidity: 5-85%, no-condensing
	Storage humidity: 5-95%, non-condensing
Software Features	
WAN Features	Dynamic IP, Static IP, PPPoE, Multiple WAN, Static NAT, Dynamic NAT, Port Mapping, IPSec VPN, Link Detection, PBR
LAN Features	VLAN, IPv4/IPv6 DHCP Server, DHCP Snooping, Link Aggregation
Wireless Features	CAPWAP, High Availability, AP Upgrading, Manual and Regular AP Restarting, Limit Numbers of Access Clients, Restore AP, AP Status Monitoring, STA Status Monitoring, Load Balancing Between RF(2.4G & 5G), Load Balancing Between Wireless Clients, Manually/Automatically Work Channel Setting, Manually/Automatically Transmission Power Setting, Manually, 20/40/80/160mhz Channel Bandwidth Configuration, Manually/Automatically Channel Optimization, L2 Roaming, Fast Roaming, SSID Hidden, STA Isolation Within VLAN, RF Scheduled ON and OFF, STA Blacklist MAC & Whitelist MAC, Bandwidth Limitation Based On AP Group, Bandwidth Limitation Based On Service Name, Downlink/Uplink Bandwidth Control, AP Escape, Flood Attack Detection, Scan & Anti-rogue
Authentication Management	Open, PSK, 802.1X, Local Portal (Online Terminals, Effective Online Duration, Local Password-free Authentication, Customize Web Authentication Page/Built-In Authentication Page Template, Free Access Resources), External Radius Server, Voucher Authentication, Wired Network Authentication, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2Enterprise, WPA3-Personal, WPA3-Enterprise

Basic Security Function	IPS, URL filtering, Connection Limitation, IP Access List, Time Rule Access List
Wireless Attack Detection	Assoc Attack Detection, Auth Attack Detection, Beacon Attack Detection, Deauth Attack Detection, Desassoc Attack Detection
Wired Attack Detection	ICMP/Syn/TCP/UDP Flood Attack Detection, Single Packet Attack Detection, Network Scan Attack Detection, Sources Address Spoofing, Network Access Blacklist
Device Management	Web, Ping, Traceroute, Packet Capture, Cloud, SNMP, NTP, DNS, Configuration Backup and Restore, Factory Reset

Model	Description
Order Information	
RS-WCL-500	RS-WCL-500 wireless controller, integrated Routing, Switching, Security, Access Controller, uthentication in one box, 8*1000M Base-T+2*1000M SFP interfaces, One AC Power Supply. (Gateway Mode: 64 Units AP; Controller Mode: 128 Units AP)

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Visit our website or contact your local Rubisec representative for more information.