Overview

The new generation series 802.11ax wireless access point RS-WAP-830 developed by Rubisec is an indoor wireless access point that supports the latest 802.11ax technical standard. The product complies with the IEEE 802.11a/b/g/n/ac/ax standard, adopts high performance dual-band hardware design, four spatial streams, and the whole machine can provide up to 5.4Gbps access rate.

RS-WAP-830 adopts a built-in antenna design that is simple and elegant with convenient deployment. It supports ceiling mounting installation methods. It provides local DC and PoE two power supply modes, which can be flexibly selected according to the user environment. It is suitable for high-density, high-bandwidth and high-concurrency deployment scenarios such as enterprise conference room, university lecture room, office building corridor, etc.

Highlight Features

- High performance hardware design support up to 5.4Gbps
- 802.11ax MU-MIMO technology supported
- Dual-band for high density wireless connection
- 802.11k/v and seamless Layer2/3 Roaming Supported
- Self-provisioning networking supporting
- Rich security features for wireless network

Models	RS-WAP-830
Hardware Specification	
Service Port	1*10/100/1000Mbps Base-T adaptive Ethernet Port, 802.3at PoE (LAN1) 1*10/100/1000Mbps Base-T adaptive Ethernet Port (LAN2)
Flash / Memory	128MB /512MB
Serial Console Interface	1*RJ45 Port
Power Interface	1*12VDC (Nominal, +/-5%)
Indicators	1*Multi-Color LED (For System and Radio sta
Reset Button	1*Rest Button (Factory reset)
Working Temperature	0 °C to +45 °C
Working Humidity	10% to 90% non-condensing
Storage Temperature	-40 °C to +70 °C
Storage Humidity	5% to 95% non-condensing
IP Rating	IP51
Weight	0.62 kg
Dimension(W*D*H) mm	197mm*197mm*58mm
Installation Mode	Ceiling Mounting
Power Supply	Adapter: DC 12V/1.5A (optional) When both DC and PoE power sources are available, DC power takes priority over PoE
Power Consumption	<22W The maximum transmit power of the AP complies with the regulations of different countries and regions
Operating Bands (Country-specific restrictions apply)	Dual-band design: - Radio1: 2.4GHz, 2 streams: 2*2 - Radio2: 5GHz, 2 streams: 2*2
Antenna Gain	- Radio1: 2.400-2.4835GHz - Radio2: 5.150–5.350GHz, 5.47–5.725GHz, 5.725–5.850GHz
Antenna	Built-in Intelligent Antennas
Antenna Gain	2.4GHz: 3.0dBi
	5GHz: 5.0dBi
ESD/ Surge	Air discharge +/-8K, contact discharge +/-4K Common mode 2K, differential mode 1K

Transmission Rate	- 802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps - 802.11a/g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps - 802.11n: 6.5Mbps-300Mbps (MCS0-MCS31, HT20-HT40), 400Mbps with 256-QAM - 802.11ac: 6.5Mbps-866Mbps (MCS0-MCS9, NSS=1-2, VHT20-VHT160) - 802.11ax (2.4GHz): 8.6Mbps-574Mbps (MCS0-MCS11, NSS=1-2, HE20-HE40) - 802.11ax (5GHz): 8.6Mbps-2,402Mbps (MCS0-MCS11, NSS = 1-2, HE20-HE160)
Maximum Transmit Power	2.4GHz: +23dBm 5.2GHz: +23dBm 5.8GHz: +23dBm Note: The actual transmit power complies with the regulatory requirements for radio frequency emissions in various countries and regions
Transmit Power Adjustment / Frequency Bands	1 dBm / 5Ghz: 5.150GHz - 5.850GHz, 2.4Ghz: 2.4GHz ~ 2.484GHz
Modulation Mode	- 802.11b: BPSK, QPSK, CCK - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Support modes	- Working mode: Fat AP mode and Thin AP mode - The download rate, upload rate, and running time of the wireless AP - Gateway mode: The device connects to the WAN through the WAN port and connects to the Internet using static IP, DHCP, or PPPoE - AP mode: The device overlays the wireless network signal to other clients and devices, and uses Ethernet to connect to other routers to access the WAN.
WIFI Standards	IEEE 802.11a/b/g/n/ac/ax
SSID Numbers	4 (2.4GHz) + 4 (5GHz)
Channelization	20, 40, 80, 160 MHz
Recommended User	192
Working Mode	Fit/Fat Mode
Security Type	OPEN, WPA/WPA2PSK-TKIPAES, WPA3PSK-AES
Working Bandwidth	- 802.11ax: HE160, HE80, HE40, HE20 - 802.11ac: VHT160, VHT80, VHT40, VHT20 - 802.11n: HT40, HT20
Date Rate	- Radio1: 2.4GHz, 574Mbps - Radio2: 5GHz, 2.402Gbps
MIMO Technologies	- Multi-User Multiple Input Multiple Output (MU-MIMO) - Maximum Ratio Combining (MRC) - Space-Time Block Coding (STBC) - Cyclic Delay/Cyclic Shift Diversity (CDD/CSD) - Dynamic MIMO power saving
Advanced WIFI Features	- Orthogonal Frequency Division Multiple Access (OFDMA) - Short GI (Short Guard Interval) - DFS (Dynamic Frequency Selection) - Spectrum Navigation

Wireless capabilities	- SSID broadcast - Hide SSID function - Wireless MAC address filtering: Support whitelisting - WiFi timed off function - User isolation: Isolation between wireless networks and internal isolation of APs - Transmit power settings - Limit the number of wireless clients - QoS:WMM
Network functions	- Connection method: Static address, obtained from the management server, obtained from the gateway - DHCP server: It can be a built-in DHCP server or an external DHCP server - Firewall functionality - PPPoE Function: Supports PPPoE dialing function
Device management	- Backup configuration information - Restore configuration information - Factory reset - Reboots include scheduled reboots and immediate reboots - Firmware upgrade - Time management includes system display time and time synchronization - System logs - Fat and thin AP switching function

Model	Description
Order Information	
RS-WAP-830	Ceiling mount Wi-Fi6 802.11a/b/g/n/ac/ax, Triple-band, Dual-mode, forwarding performance of the whole device 5.4Gbps, 3*2:2 MIMO, inbuilt antennas, PoE power input, 1*2500M LAN Port (PoE+), 1*1000M LAN Port. (installation accessory included)

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