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 a triple-band independent hardware design, six 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 desktop, ceiling mounting and wall 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
- Triple-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*10/100/1000M/2.5Gbps Base-T adaptive Ethernet Port, 802.3at PoE (LAN1) 1*10/100/1000Mbps Base-T adaptive Ethernet Port, 6.5W PoE Out (LAN2)
USB Port	1*USB 2.0
Serial Console Interface	1*RJ45 Port
Power Interface	1*12VDC (Nominal, +/-5%)
Indicators	1* Multi-Color LED (For System and Radio status)
Reset Button	1* Rest Button (Factory Reset; WPS)
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	0.85 kg
Dimension(W*D*H) mm	230mm*230mm*51mm
Installation Mode	Ceiling Mounting
Power Supply	Adapter: DC 12V/2A (optional) PoE Standard: 802.3at-compliant (compatible). When both DC and PoE power sources are available, DC power takes priority over PoE
Power Consumption	<20W (without USB output) 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, - Radio3: 5.47–5.725GHz, 5.725–5.850GHz
Antenna	Built-in Intelligent Antennas
Antenna Gain	2.4GHz: 4.0dBi
	5GHz: 4.0dBi
	5.8GHz: 4.0dBi

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	1 dBm
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-QA
Modulation and Encoding	- Low Density Parity Check (LDPC) - Maximum Likelihood Detection (MLD)
Advanced RF Features	- TPC (Transmit Power Control) - ACS (Automatic Channel Scanning)
WIFI Standards	IEEE 802.11a/b/g/n/ac/ax
SSID Numbers	16*SSIDs
Channelization	20, 40, 80, 160 MHz
Recommend Users	64~125
Working Mode	Fit/Fat Mode
Security Type	Open, PSK, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WPPersonal, WPA3-Enterprise, Portal, 802.1X, Radius
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 - Radio2: 5GHz, 2.402Gbps - Combined: 5.378Gbps
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
Energy Saving	- U-APSD - SM Power Save - Green AP mode
Advanced WIFI Features	- Orthogonal Frequency Division Multiple Access (OFDMA) - Short GI (Short Guard Interval) - DFS (Dynamic Frequency Selection) - Spectrum Navigation

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*2.5G LAN Port (PoE), 1*1000M LAN Port. (installation accessory included)

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