



## ■ Overview

The new generation series 802.11ax wireless access point RS-WAP-823 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 3Gbps access rate.

RS-WAP-823 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 3.0Gbps
- 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-823
Hardware Specification	
Service Port	1*10/100/1000Mbps Base-T adaptive Ethernet Port, 802.3af PoE (LAN1) 1*10/100/1000Mbps Base-T adaptive Ethernet Port (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 sta
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	0.62 kg
Dimension(W*D*H) mm	197mm*197mm*58mm
Installation Mode	Ceiling Mounting
Power Supply	Adapter: DC 12V/1.5A (optional) PoE Standard: IEEE 802.3af/802.3at-compliant (compatible). When both DC and PoE power sources are available, DC power takes priority over PoE
Power Consumption	<13W (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, 5.47-5.725GHz, 5.725-5.850GHz
Antenna	Built-in Intelligent Antennas
Antenna Gain	2.4GHz: 4.0dBi
	5GHz: 4.0dBi

Transmission Rate	<ul style="list-style-type: none"> <li>- 802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps</li> <li>- 802.11a/g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps</li> <li>- 802.11n: 6.5Mbps-300Mbps (MCS0-MCS31, HT20-HT40), 400Mbps with 256-QAM</li> <li>- 802.11ac: 6.5Mbps-866Mbps (MCS0-MCS9, NSS=1-2, VHT20-VHT160)</li> <li>- 802.11ax (2.4GHz): 8.6Mbps-574Mbps (MCS0-MCS11, NSS=1-2, HE20-HE40)</li> <li>- 802.11ax (5GHz): 8.6Mbps-2,402Mbps (MCS0-MCS11, NSS = 1-2, HE20-HE160)</li> </ul>
Maximum Transmit Power	2.4GHz: +23 dBm 5GHz: +23 dBm 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	<ul style="list-style-type: none"> <li>- 802.11b: BPSK, QPSK, CCK</li> <li>- 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM</li> <li>- 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</li> <li>- 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM</li> </ul>
Modulation and Encoding	<ul style="list-style-type: none"> <li>- Low Density Parity Check (LDPC)</li> <li>- Maximum Likelihood Detection (MLD)</li> </ul>
Advanced RF Features	<ul style="list-style-type: none"> <li>- TPC (Transmit Power Control)</li> <li>- ACS (Automatic Channel Scanning)</li> </ul>
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	<ul style="list-style-type: none"> <li>- 802.11ax: HE160, HE80, HE40, HE20</li> <li>- 802.11ac: VHT160, VHT80, VHT40, VHT20</li> <li>- 802.11n: HT40, HT20</li> </ul>
Date Rate	<ul style="list-style-type: none"> <li>- Radio1: 2.4GHz, 574Mbps</li> <li>- Radio2: 5GHz, 2.402Gbps</li> </ul>
MIMO Technologies	<ul style="list-style-type: none"> <li>- Multi-User Multiple Input Multiple Output (MU-MIMO)</li> <li>- Maximum Ratio Combining (MRC)</li> <li>- Space-Time Block Coding (STBC)</li> <li>- Cyclic Delay/Cyclic Shift Diversity (CDD/CSD)</li> <li>- Dynamic MIMO power saving</li> </ul>
Energy Saving	<ul style="list-style-type: none"> <li>- U-APSD</li> <li>- SM Power Save</li> <li>- Green AP mode</li> </ul>
Advanced WIFI Features	<ul style="list-style-type: none"> <li>- Orthogonal Frequency Division Multiple Access (OFDMA)</li> <li>- Short GI (Short Guard Interval)</li> <li>- DFS (Dynamic Frequency Selection)</li> <li>- Spectrum Navigation</li> </ul>

Model	Description
Order Information	
RS-WAP-823	Ceiling mount Wi-Fi6 802.11a/b/g/n/ac/ax, Dual-band, Dual-mode, forwarding performance of the whole device 3Gbps, 2*2:2 MIMO, inbuilt antennas, PoE power input, 1*1000M LAN Port (PoE), 1*1000M LAN Port. (installation accessory included)

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