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Aero Range - Wi-Fi 6 In Wall AP

SIL WCAP-AX-W

All New Robust Performance, Wireless In Wall Access Point

SIL WCAP-AX-W
1800Mbps 802.11AX Dual Band Wireless In Wall AP

OVERVIEW

As part of the new Intelligent Wi-Fi 6 "Aero" range by SilverNet, the SIL WCAP-AX-W is a compact In Wall access point that offers more than meets the eye.

With a hidden port enabling it to offer WAN and Power Over Ethernet supply, don't let its compact size fool you. Robust and powerful, the WCAP-AX-W offers superior indoor Wi-Fi speed and includes a USB-C port on the bottom for mobile phone or tablet charging. If required, this small but functional AP also works as an RJ45 port when used with an Ethernet Adaptor.

These features are designed with hospitality applications in mind, making it ideal for installation in hotels and guest houses to provide impressive Wi-Fi speeds of up to 1800Mbps to your guests. On top of these applications, the WCAP-AX-W can also be efficiently utilised in enterprise and home networks.

With options to manage the AP locally or via the cloud, the flexibility of this equipment allows you to offer a full, end-to-end managed Wi-Fi service to meet your client's needs. It is also efficient when used as a standalone AP.

Keep things running smoothly for both you and your customer. You'll stay informed about your customer's Wi-Fi client signal health and internet quality, putting an end to common, unnecessary support calls. Time consuming tasks like RF troubleshooting and bulk software upgrades are a breeze, and installation is a simple, speedy job.

The 5Ghz priority feature improves wireless network performance, and with 1 year extended warranty you won't have to worry about your customer's Wi-Fi needs.

Features

- WIFI 6, 802.11ax chipset, 1800Mbps
- Coverage Range: 100m
- WAN – 10/100/1000-BASE-T
- Type-c connector
- PoE 802.af
- Channel optimisation
- Automatic interference avoidance
- Up to 8 SSID (4 on 2.4GHz, 4 on 5.8GHz)

- Client Load Balancing
- AES Encryption
- VLANS
- PING Watchdog
- MAC Access control
- Easy to install
- Local or Cloud Management
- 1 Year warranty

Distributed By:

Superior Performance Features

5GHz Priority

Ensure you're always getting peak wireless networking performance.

The WCAP-AX-W automatically calculates the load balance and signal strength of 2.4GHz and 5.8GHz, allocating users to 5.8GHZ first. This provides a high quality internet experience for your customers.

Seamless Roaming

Roaming has never been smoother.

802.11k and 802.11v Seamless Roaming provides smooth, unnoticeable switching to whichever access point has the most optimal signal when moving between APs.

Intelligent Spectrum Management

Success in the 2.4GHz and 5GHz spectrum requires an intelligent management system to remain interference free. The WCAP-AX-W has you covered.

It automatically selects the best channel on start-up, and uses an ongoing auto channel algorithm to alert and change channels if performance suffers due to interference.

Increased Efficiency with OFDMA

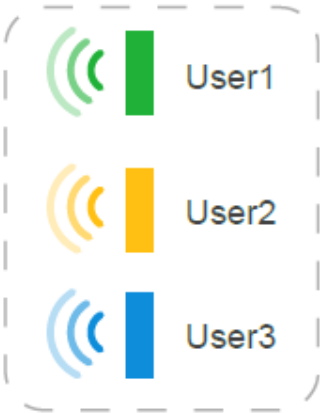Reduced latency and efficient channel usage are the benefits of using OFDMA

Picture your Wi-Fi connection as a series of delivery vans, delivering data packets to your users. With 802.11ax, a "van" can deliver multiple packets to multiple users simultaneously, by splitting the bandwidth into individual "delivery" slots.

This results in a vast improvement in efficiency, working for both uploads and downloads.
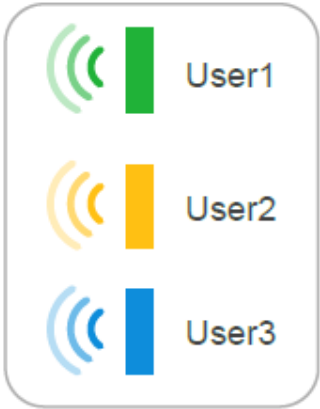
Technical Specifications

Part No.	SIL WCAP-AX-W
Performance	
Max Throughput	1800Mbps (2.4GHz: 600Mbps, 5GHz: 1200Mbps)
Client Capacity	100
Wireless Protocols	802.11ax/ac/a/n/g/b
Flash	SPI NOR 16MB
Memory	128MB
Modes	WISP Wireless Range Extender (Repeater) Wired WiFi Extension (AP Mode)
Power Consumption	14W
Radio	
MIMO & Modulation	2x2:2 MIMO OFDMA Up to 256-QAM
Bandwidth	20/40/80/160 MHz Channels
Frequency Range	2400 – 2484MHz; 5150 – 5850MHz
Max Output Power	16dBm
Antenna	
Type	Internal
Pattern	4*2dBi Omni
Interface	
WAN	1x 10/100/1000 RJ45 WAN Port (PoE)
Reset Button	1x Reset Button (Press & Hold for 10 seconds to revert to factory default)
Type C	1x Type C Power Interface
Physical	
Dimensions (mm)	86W x 10.5H x 86L
Enclosure	UV Stabilized Plastic
Environment	
Operating Temperature	-20°C to +40°C
Operating Humidity	5% to 95% Non-Condensing
Storage Temperature	-40°C to +70°C
Standards	
Approvals	IEC62368-1:2014+A11:2017 EN IEC 62311:2020 ETSI EN 301 489-1 ETSI EN 301 489-3 ETSI EN 301 489-17 ETSI EN 300 328 ETSI EN 300 440 ETSI EN 300 893
Safety	IEC/EN
RoHS Compliance	Yes
Wi-Fi Certified	Yes

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Part Numbers & Accessories

802.11ax Access Points

Part Code	Description
SIL WCAP-AX	Wi-Fi standard 802.11ax/ac/n/a/g/b, Operating on 2.4GHz & 5GHz, Speeds up to 1800Mbps, 18dBm, 4dBi MIMO antenna, Multi-SSID Up to 8 SSID Per radio, wireless security: WPA2-PSK, WPA-Enterprise (WPA/WPA1,TKIP/AES) Concurrent Clients 120+ Range 150m.
SIL WCAP-AX-EXT+	Wi-Fi Standard 802.11ax/ac/n/a/g/b. Frequency 2.4GHz & 5GHz, Speeds up to 1800Mbps, Max TX Power 24dBm, Quad N-Type Connector for Dual Band, Up to 8 SSID Per Radio, Wireless Security WEP,WPA-PSK,WPA Enterprise, (WPA/WPA2,TKIP/AES) Concurrent clients 160+.
SIL WCAP-AX-EXT	Wi-Fi Standard 802.11ax/ac/n/a/g/b. Frequency 2.4GHz & 5GHz, Speeds up to 1800Mbps, Max TX Power 23dBm, 3dBi @ 2.4GHz, 6dBi @ 5.8GHz Integrated Omni Antenna, Up to 8 SSID Per Radio, Wireless Security WEP,WPA-PSK,WPA Enterprise, (WPA/WPA2,TKIP/AES) Concurrent clients 160+.

AP Controller

Part Code	Description
SIL WAC-AX	Dual-Core 1.8GHz CPU, 2GB DDR RAM, 32G SSD, Ethernet 5*10/100/1000Mbps LAN / WAN port, 1 x 10/100/1000Mbps WAN Port, 2x USB 1.1 Port, 1 x RJ45 Console Port, Power & SSID Indicator, Desk-top and Mount Rack.