



AP108

High Performance Indoor/Outdoor Dual Band 802.11ac Wireless Access Point

HIGHLIGHTS



- 📶 2.4GHz/5GHz IEEE 802.11ac 2x2 MIMO
- 📶 1167 Mbps data rate
- 📶 Gigabit wired interface
- 📶 AP/WDS/AP-WDS Operation Modes
- 📶 Prioritizes applications and maintains Quality of Experience
- 📶 Supports up to 32 SSIDs
- 📶 Supports up to 256 simultaneous users
- 📶 Industry-Standard Security

DIMENSIONS & WEIGHT

- 📶 Dim: 160mm (W) x 160mm (D) x 40mm (H)
- 📶 Weight: 300g

Overview

The AP108 is a dual-band 2x2 MIMO 802.11ac indoor Wi-Fi Access Point designed for high-density deployments in large offices, schools, hospitals and hotels that require superior wireless performance. With up to 1167Mbps aggregated data rates, the AP108 is a powerful and cost effective Wi-Fi AP for any indoor deployment. Designed with enhanced wireless transmission power and receive sensitivity, the AP108 delivers the high throughput and reliable coverage required by modern bandwidth intensive applications. The AP108 supports standard AP, AP WDS and WDS Bridge Operation Modes to allow flexible applications suitable for a wide variety of deployment scenarios.

The AP108 supports centralized management by integration with 3rd party controller or cloud management systems, allowing remote manage and monitor of the APs easily. The ability to provide multiple SSIDs enables the operator to provide a wide variety of application and access control to the network. With multiple QoS policies, operators can provision bandwidth or latency demanding applications that further increase revenue potential. With 802.1x and Web authentication, the AP108 allows enhanced security required for such deployments.



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Features

Dual-Band 2x2 MIMO Radio:

The AP108 is compliant with IEEE 802.11n and 802.11ac standards (including 2x2 MIMO). It provides speeds up to 300Mbps on the 2.4 GHz spectrum and up to 867Mbps on the 5GHz spectrum, with an aggregate data rate of 1167Mbps. Utilizing advanced antenna design, the AP108 is especially suitable for high density, high capacity indoor deployments. The advanced RF design enables the most optimal path to the wireless client for demanding applications such as media streaming, online gaming, and large file transfers. The AP108 is compatible with a wide variety of Wi-Fi terminals, including laptops, smart phones, tablets and most anything with Wi-Fi built in.

All-in-one Integrated AP:

The integrated Fat AP software package provides complete functionality for fast deployments. The functions include QoS, Web authentication, MAC authentication, MAC ACL, Portal Integration, VLAN, IGMP and NTP.

3rd party Integration - Open Platform:

The AP108 supports centralized management by integration with 3rd party controller or cloud management systems. The management data between the AP108 and the access controller (AC) is encrypted. The APs require no configuration before connecting to the AC. By creating different service templates, it is easy for the operator to configure a large number of APs rapidly. It is possible to manage the AP108 remotely from anywhere, modifying the configurations, upgrading the firmware, rebooting the AP, and monitoring the AP status via the alarm alerts or system logs.

Multiple wireless services:

The AP108 supports multiple operation modes including standard AP, AP WDS and WDS bridge modes. Operating in the standard AP mode, the AP108 provides high capacity wireless access for Wi-Fi terminals. Operating in the AP WDS mode for the 2.4GHz or 5GHz radios, the AP108 can support clients with WDS to access AAA servers for billing or authentication services. When operating in the WDS bridge mode on the 5GHz radio and AP mode on 2.4GHz radio, multiple AP108's can establish a mesh network to allow flexible and rapid deployment scenarios.

Prioritizes Applications and Maintains Quality of Experience:

The AP108's advanced QoS (Quality of Service) capabilities permits the operator to prioritize bandwidth intensive services (such as HD video streaming and gaming) and bandwidth sensitive services (such as VoIP phone calls), allowing smooth roll-out of value added services. Further bandwidth shaping using SSID/Role allows further fine tuning of access for different users or application requirements.



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Multiple SSIDs:

The AP108 supports up to 32 SSIDs, 16 SSIDs for each radio. Clients accessing different SSIDs are partitioned and isolated from each other for security purposes. The AP108 permits the operator to assign QoS policy and authentication mechanisms for each SSID to enable enhanced service delivery. The WP108 supports up to 256 simultaneous users with 128 users on each radio.

Industry-Standard Security:

The AP108 supports multiple security methods, WEP, WPA/WPA2-PSK, 802.1x Auth (PEAP, EAP/SIM), MAC Auth and Web Auth. Denial of accessing by MAC ACL enhance network security, providing additional layers of protection for internal networks from intruders or from malicious software attacks.

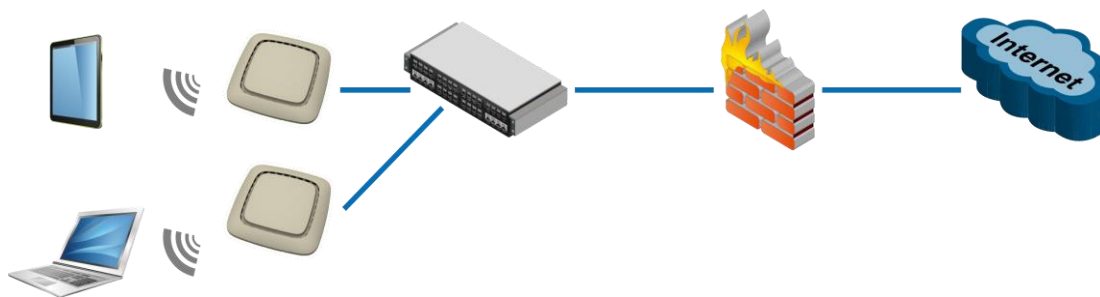
Easy Installation:

The AP108 is designed for industry standard indoor deployments with an operating temperature range of 0°C to +45°C. It can be installed in most indoor environments to support broadband access services for wired or wireless users. For example, it can be placed on a wall or on a ceiling, allowing greater deployment flexibility.

Applications

Indoor Coverage as a Stand-Alone AP:

As a stand-alone Wi-Fi AP, the AP108 supports up to 32 SSIDs (16 SSIDs for each radio) with excellent performance and enhanced capacity. It is a great fit for small to medium sized corporate wireless LAN networks.



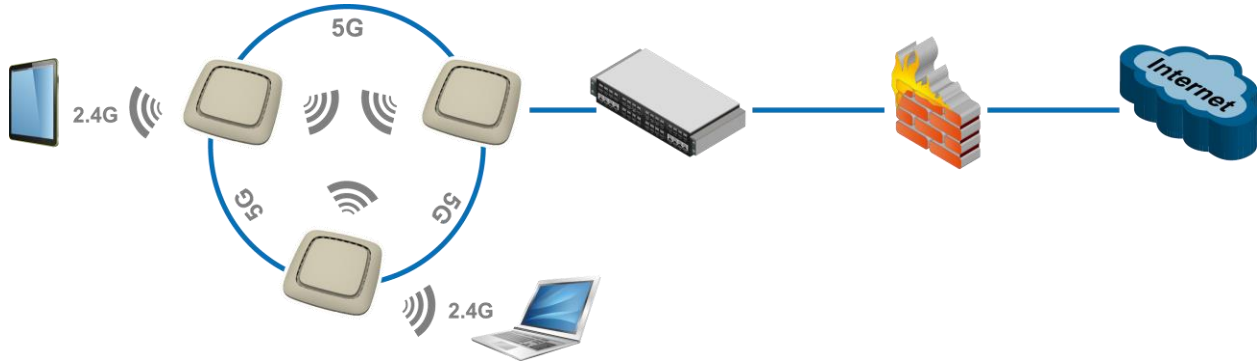
Wireless Mesh Network:

With the WDS bridge mode enabled on the 5GHz radio, the AP108 can establish a mesh network with other APs while simultaneously providing 2.4 GHz Wi-Fi coverage. Wi-Fi clients connected to different AP108 APs in this mesh network are able to communicate with each other and also to access the Internet.



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Specifications

<p>Physical Specifications</p> <p>Dimension: 160mm (W) x 160mm (D) x 40mm (H)</p> <p>Installation: ceiling mounting or wall mounting</p> <p>LEDs: RUN, Ethernet, 5G, 2.4G</p> <p>Environmental Specifications</p> <p>Operating temperature: 0° to +45°C</p> <p>Humidity: 5% to 95% non-condensing</p> <p>Dustproof and Waterproof: IP30,</p> <p>RoHS 2011/65/EU compliant ; WEEE</p> <p>Power Supply</p> <p>Power input:</p> <p style="padding-left: 20px;">+12V/1A</p> <p style="padding-left: 20px;">802.3af PoE (PD)</p> <p>Power consumption: less than 12W</p> <p>Built-in Antennas</p> <table border="1"> <tr> <td>Frequency (MHz)</td> <td>2400-2500</td> <td>5150-5850</td> </tr> <tr> <td>Polarization</td> <td>Vertical</td> <td>Vertical</td> </tr> </table>	Frequency (MHz)	2400-2500	5150-5850	Polarization	Vertical	Vertical	<p>Wi-Fi Interface</p> <p>Operating frequency:</p> <p style="padding-left: 20px;">2.4G radio: 2.4000GHz-2.4835GHz</p> <p style="padding-left: 20px;">5G radio: 5.150-5.250, 5.250-5.350, 5.470-5.725, 5.725-5.875 GHz *</p> <p>Maximum Transmit Power:</p> <p style="padding-left: 20px;">2.4G radio: up to 21dBm*</p> <p style="padding-left: 20px;">5G radio: up to 21dBm*</p> <p>*Maxim transmit power may change according country regulation and transmission rates.</p> <p>Receive sensitivity:</p> <p style="padding-left: 20px;">802.11g:</p> <p style="padding-left: 40px;">-91dBm@6Mbps</p> <p style="padding-left: 40px;">-77dBm@54Mbps</p> <p style="padding-left: 20px;">802.11n:</p> <table border="1"> <tr> <td></td> <td>HT20</td> <td>HT40</td> </tr> <tr> <td>MCS 0/8/16</td> <td>-91dBm</td> <td>-88dBm</td> </tr> <tr> <td>MCS 7/15</td> <td>-74dBm</td> <td>-71dBm</td> </tr> </table>		HT20	HT40	MCS 0/8/16	-91dBm	-88dBm	MCS 7/15	-74dBm	-71dBm
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Gain(dBi)	3+	3+				
Interface			802.11a:			
1 x GE(uplink) & PoE Interface			-93dBm@6Mbps			
1 x Console			-77dBm@54Mbps			
1 x Reset Button			802.11ac:			
1 x One external DC power input (12VDC)			VHT20	VHT40	VHT80	
1 x USB 2.0			MCS0	-91dBm	88dBm	-85dBm
			MCS8	-70dBm	/	/
			MCS9	/	-64dBm	-61dBm
			Safety & EMI			
			FCC compliant			
			UL certificate			