Aerohive AP130

802.11ac Dual-Radio 2x2:2 access point with internal antennas designed for ultra-high density environments

Aerohvie Networks AP130 Enterprise access points provide a seamless transition to 802.11ac. With more users, more devices, more things, more applications, and strained infrastructure and budget, the AP130 is a powerful option to meet those challenges. Aerohive has built an AP for pervasive Wi-Fi prepared for ultra-high density environments, powerful enough to provide all the services needed for an enterprise network, and inexpensive enough to deploy for ultra-high capacity networks. The AP130 combines 2x2, 2-stream, 802.11ac Wi-Fi technology and advanced security and device lifecycle management together into a cost-optimized solution that allows you to deploy high speed Wi-Fi into every office or classroom.

Combining Aerohive innovative distributed Cooperative Control architecture with the powerful HiveOS operating system, coupled with the ability to provide full functionality on legacy PoE infrastructure, the AP130 maintains the Aerohive standard for cost-effective solution pricing that allows enterprises of all sizes to deploy capacity-oriented Wi-Fi networks. The AP130 provides an enterprise-class experience for all types of mobile devices, including legacy Wi-Fi types.

The AP130 provides high-performance data rates up to 867Mbps in the 5-GHz band. It supports dual concurrent 2.4Ghz 802.11b/g/n and 5Ghz 802.11a/n/ac radios.

Key Features and Benefits

Engineered for ultra-high density

Pervasive access – thousands of new devices, used in more places, storing more data, on new device types- BYOD, Consumerization of IT, wearables and IoT, high performance Wi-Fi, very-high client density, industry and government regulations, advanced applications and services – are no longer the exclusive domain of the large enterprise and are pretty much required by every organization. Companies of all sizes must accommodate every user laptop, personal devices, and in the very near future lighting, security, air conditioning, and other connected devices. The AP130 with the latest HiveOS incorporates the advanced software features required by every organization, including an integrated RADIUS server, DHCP server, Captive Web Portal, and automatic mesh for wireless network redundancy. Add the simplified management experience with Aerohive HiveManager, including auto-discovery and AP130 auto-provisioning experience, flexible network policies and AP-specific configurations and you get a powerful solution for any enterprise that's simple enough for any deployment.

Future-proof deployment

Upgrading your network to 802.11ac DOES NOT require you to upgrade your existing PoE infrastructure. Our advancements in energy efficiency allow the AP130 full 2-stream 802.11ac performance while using existing 802.3af PoE infrastructure. Improvements to the radio management protocol allow adding more access points to the network, such as an AP in every classroom for schools. AP130 features a thin, lightweight, sleek design for a very clean install. A TPM chip (Trusted Platform Module) provides hardware-based key and configuration encryption for added security.

Enterprise-Class Services

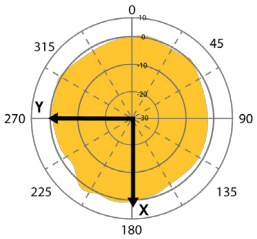
The AP130 supports granular location tracking for devices and a complete Application Visibility and Control functionality, including reporting, stateful firewall, and powerful Aerohive Quality of Service (QoS), which assures prioritization of the data traffic and data rate limits for different users, groups of users, and devices. The Aerohive Mobility Suite featuring Client Management, ID Manager, and Social Login applications take advantage of Aerohive's HiveOS that runs on the AP130 and extends management and control with simplified onboarding, management, and troubleshooting with context-based visibility, policies, and enforcement for the entire spectrum of client devices.

SKU

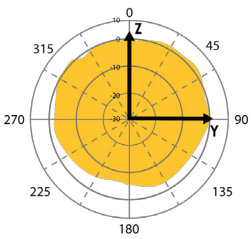
Aerohive Access Point	
AH-AP-130-AC-FCC	AP130, indoor rated, 2 radio 2x2 802.11a/b/g/n/ac, 1 10/100/1000, FCC regulatory domain, without POE injector
AH-AP-130-AC-W	AP130, indoor rated, 2 radio 2x2 802.11a/b/g/n/ac, 1 10/100/1000, configurable regulatory domain, without POE injector

RF Coverage Maps

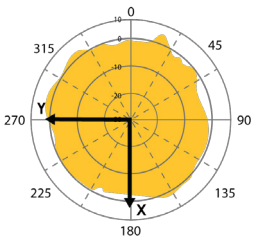
2.4 Ghz Horizontal



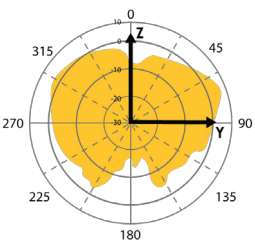
2.4 Ghz Vertical



5 Ghz Horizontal



5 Ghz Vertical



Features & Benefits

Flexible Hardware Platform

- Small, light weight intuitive design.
- Two radios provide concurrent 802.11a/n/ac and 802.11b/g/n connections with no degradation in performance
- Automatic or dedicated mesh backup
- Full 802.11ac performance with IEEE 802.3af power

Advanced Features

- Integrated application visibility and control (AVC)
- On-device RADIUS Switch directory support, Captive, Web Portal, DHCP server, and spectrum analysis - Max 256 concurrent RADIUS authenticated users
- Max 512 DHCP clients per AP
- Hardware Assisted Features

Security

- Trusted Platform Module (TPM)–Hardware-based key storage and encryption
- Wireless privacy & authentication Wi-Fi CERTIFIED WPA and WPA2, 802.11i, WEP, 802.1x, PSK
- Granular user profile-based management defines QoS, mobility policies, and security policies for each user that enters the network
- Encryption: AES:CCMP, TKIP, and RC4 (WEP only)
- Marking and policing–WMM (802.11e) for wireless
- 802.1p and/or DiffServ
- Wi-Fi CERTIFIED WMM
- WMM power save (U-APSD)

Product Specifications

Radio Specifications—802.11a

- 5.150–5.950 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/ auto fallback

Radio Specifications—802.11b

- 2.4–2.5 GHz Operating Frequency
- Direct-Sequence Spread-Spectrum (DSSS) Modulation
- Rates (Mbps): 11, 5.5, 2, 1 w/ auto fallbackRates

Radio Specifications—802.11g

- 2.4–2.5 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/ auto fallback

Radio Specifications—802.11n

- 2.4–2.5 GHz & 5.150–5.950 GHz Operating Frequency
- 802.11n Modulation
- Rates (Mbps): MCS0 - MCS15 (6.5MBps - 300Mbps)
- 2x2 Multiple-In, Multiple-Out (MIMO) Radio
- HT20 and HT40 High-Throughput (HT) Support
- A-MPDU and A-MSDU Frame Aggregation

Radio Specifications—802.11ac

- 5.150–5.950 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates (Mbps): MCS0–MCS9 (6.5Mbps – 867 Mbps), NSS = 1-2.
- 2x2:2 Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80 support
- TxBF (Transmit Beamforming)

Antennas

- 2x Integrated single band, 2.4-2.5 GHz Omni-directional antennas, 3.5 dBi peak gain
- 2x Integrated single band, 5.1-5.8 GHz Omni-directional antennas, 5.0 dBi peak gain

Interfaces

- Autosensing 10/100/1000 Base-T Ethernet PoE (Power over Ethernet 802.3af) Port

Physical

- LxWxH 147X147X42 mm (5.79x5.79x1.65in). w/o mounting brackets
- .51kg (1.13 lbs) w/o brackets

Environmental

- Operating: 0 to +40°C, Storage: -40 to +70°C
- Humidity: 95%

Environmental Compliance

- UL2043

Power Specifications

- IEEE 802.3af PoE Power

Power Options

- Power Draw: Typical 9.05W, Max 11W
- 802.3af Power over Ethernet (PoE) capable Gigabit Ethernet port (RJ-45 power input pins: Wires 4,5,7,8 or 1,2,3,6)
- 802.3af Power over Ethernet injector

Mounting

- Desktop
- Wall Mount included as part of AP
- Built-in slot for Kensington type locks
- Ceiling Tile flush 15/16" and Wall Mount locking accessory included with AP

Accessories Sold Separately

- Ceiling Tile Recessed 15/16", 3/8", 9/16" sold as an accessory
- Ceiling Tile flush 3/8", 9/16" sold as an accessory
- Suspend Mount sold as an accessory
- Plenum Mount sold as an accessory

	2.4GHz		5GHz	
Rate	TX Power	RX Sensitvity	TX Power	RX Sensitvity
802.11a				
6 Mbps – 24 Mbps			19	-94, -86
36 Mbps			18	-82
48 Mbps			17	-78
54 Mbps			16	-77
802.11b				
1 Mbps	21	-99		
2 Mbps	21	-97		
5.5 Mbps	21	-94		
11 Mbps	21	-91		
802.11g				
6 Mbps – 24 Mbps	20	-95, -86		
36 Mbps	18	-82		
48 Mbps	17	-78		
54 Mbps	16	-77		
802.11n HT20				
MCS 0, 1, 2, 3, 4, 8, 9, 10, 11, 12	20	-94, -81	19	-93, -81
MCS 5, 13	18	-77	18	-76
MCS 6, 14	17	-74	17	-75
MCS 7, 15	16	-74	16	-73
802.11n HT40				
MCS 0			19	-93
MCS 1			19	-90
MCS 2			19	-88
MCS 3			19	-84
MCS 4			18	-81
MCS 5			17	-77
MCS 6			16	-75
MCS 7			14	-74
MCS 8			19	-90
MCS 9			19	-87
MCS 10			19	-85
MCS 11			19	-81
MCS 12			18	-78
MCS 13			17	-74
MCS 14			16	-72
MCS 15			14	-71

	2.4GHz		5GHz	
Rate	TX Power	RX Sensitvity	TX Power	RX Sensitvity
802.11ac VHT20				
MCS 0	20	-94	19	-93
MCS 1	20	-91	19	-89
MCS 2	20	-89	19	-87
MCS 3	20	-86	19	-84
MCS 4	20	-86	19	-81
MCS 5	20	-78	18	-76
MCS 6	18	-76	16	-75
MCS 7	17	-73	15	-73
MCS 8	16	-70	13	-69
MCS 9				
802.11ac VHT40				
MCS 0	20	-91	19	-90
MCS 1	20	-88	19	-87
MCS 2	20	-85	19	-85
MCS 3	20	-82	19	-81
MCS 4	20	-79	19	-78
MCS 5	20	-75	18	-74
MCS 6	18	-73	16	-72
MCS 7	17	-72	15	-71
MCS 8	14	-66	13	-66
MCS 9	13	-65	12	-64
802.11ac VHT80				
MCS 0			19	-87
MCS 1			19	-84
MCS 2			19	-81
MCS 3			19	-78
MCS 4			19	-75
MCS 5			18	-70
MCS 6			16	-69
MCS 7			15	-68
MCS 8			13	-63
MCS 9			12	-61

Power & Sensitivity Table

Power shown is per transmit chain and is a maximum power that the radio is capable of, power limits will be limited by local radio regulations.

Warranty and Support

Every Aerohive Networks device is backed by a limited lifetime hardware warranty. Extended product and technical support may be purchased separately and can include next day advanced replacement, 24x7 or 8x5 technical support, web and email support access, and software updates. For complete support terms go to www.aerohive.com/support.

Contact us today to learn how your organization can benefit from an Aerohive wireless LAN architecture.