

AP122

Enterprise-grade 2x2, 2-stream 802.11ac access point designed for medium density environments at a competitive price point.

AP122 provides the full breadth of Aerohive's enterprise-grade feature set and IOT readiness in medium density environments. It achieves 802.11ac performance with data rates up to 867 Mbps along with built-in BLE and USB port using existing 802.3af POE infrastructure.

Running powerful HiveOS coupled with innovative distributed Cooperative Control architecture, AP122 brings the best of end user connectivity and Wi-Fi coverage. In addition, the integrated BLE radio and a USB interface in the access point opens up a multitude of deployment use-cases in IoT and proximity/location-oriented services.

AP122 is a key component of the Aerohive Connect solution. Connect provides cloud-managed connectivity built on Aerohive's industry-first cooperative control Wi-Fi focused on optimizing speed and resilience. Connect is centrally managed from the cloud, allowing for simple, fast, and powerful management.



Aerohive Connect

AEROHIVE CONNECT COMPONENTS



ENTERPRISE CONNECTIVITY

- Optimized for medium density general purpose deployments
- Built-in Bluetooth Low Energy for iBeacon/ other beacon technologies
- IoT readiness with USB port
- Trusted Platform Module (TPM) – Hardware-based key storage and encryption
- Encryption: AES/CCMP, TKIP, and RC4 (WEP only)



CLOUD MANAGEMENT

- Network Device and Client Monitoring
- Global Search and Filter function
- Auto-Provisioning Tools for quick and easy deployment
- Network Health View
- Versatile RF Planning
- Guided Network Configuration Setup
- 802.1X and PSK Secured Networks
- Guest Access functionality with configurable Captive Web Portal



HIVECARE SUPPORT

- HiveCare Community Support: forum-based interactive support
- HiveCare Connect Callback service: optional
- Wide array of online resources and tools

PRODUCT SKUs

| SKU | DESCRIPTION |
|------------------|---|
| AH-AP-122-AC-FCC | AP122, 2 radio 2x2:2 802.11a/b/g/n/ac AP, 1 10/100/1000 Ethernet port, FCC regulatory domain, w/o power supply (Internal Antenna only). Includes HiveManager Connect & HiveCare Connect Support |
| AH-AP-122-AC-W | AP122, 2 radio 2x2:2 802.11a/b/g/n/ac AP, 1 10/100/1000 Ethernet port, World regulatory domain, w/o power supply (Internal Antenna only). Includes HiveManager Connect & HiveCare Connect Support. |
| AH-AP-122-AC-CAN | AP122, 2 radio 2x2:2 802.11a/b/g/n/ac AP, 1 10/100/1000 Ethernet port, Canada regulatory domain, w/o power supply (Internal Antenna only). Includes HiveManager Connect & HiveCare Connect Support. |

PRODUCT SPECS

Radio Specifications—802.11a

- 5.150–5.850 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

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

Radio Specifications—802.11g

- 2.4–2.5 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- 20 dBm (100 mW) Transmit Power
- Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 w/ auto fallback

Radio Specifications—802.11n

- 2.4–2.5 GHz & 5.150–5.850 GHz Operating Frequency
- 802.11n Modulation
- Rates (Mbps): MCS0 - MCS15 (6.5Mbps - 300Mbps)
- 2x2 Multiple-In, Multiple-Out (MIMO) Radio
- HT20 High-Throughput (HT) Support (for both 2.4 GHz and 5 GHz)
- HT40 High-Throughput (HT) Support for 5 GHz

Radio Specifications—802.11ac

- 5.150–5.850 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates (Mbps): MCS0–MCS9 (6.5Mbps – 867Mbps), 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 Omnidirectional antennas
- 2x Integrated single band, 5.1-5.8 GHz Omnidirectional antennas
- 1 x BLE internal antenna

Interfaces

- Autosensing 10/100/1000 Base-T Ethernet PoE (Power over Ethernet 802.3af) Port
- RJ-45 console port
- Standard USB port

Physical

- LxWxH 171x171x44.5 mm (6.75x6.75x1.75in). w/o mounting brackets
- Weight: 1.13 lb (0.51 kg)

Environmental

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

Power Specifications

- IEEE 802.3af PoE Power

Power Options

- Power Draw: Typical 10.5W, Max 12.9W
- 802.3af / 802.3at (PoE/PoE+)

Mounting

- Desktop
- 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

Included Mounting Options

- Wall Mount
- Ceiling Tile flush 15/16"

TRANSMIT POWER TABLE

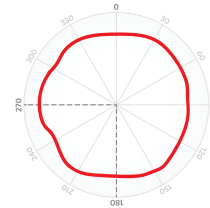
| 2.4 GHz | DATA RATE | POWER (dBm) |
|------------|------------|-------------|
| 11b | 1-11 Mbps | 18 |
| 11g | 6-54 Mbps | 17-16 |
| 11n HT20 | MCS0,8,16 | 17 |
| | MCS7,15,23 | 16 |
| 5 GHz | DATA RATE | POWER (dBm) |
| 11a | 6-54 Mbps | 17-16 |
| 11n HT20 | MCS0,8,16 | 17 |
| | MCS7,15,23 | 16 |
| 11n HT40 | MCS0,8,16 | 17 |
| | MCS7,15,23 | 14 |
| 11ac VHT20 | MCS0 | 17 |
| | MCS9 | 16 |
| 11ac VHT40 | MCS0 | 17 |
| | MCS9 | 14 |
| 11ac VHT80 | MCS0 | 16 |
| | MCS9 | 12 |

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

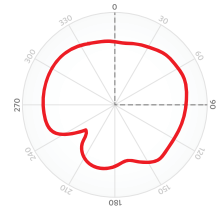
RECEIVE SENSITIVITY TABLE

| 2.4 GHz | DATA RATE | SENSITIVITY |
|------------|------------|-------------|
| 11b | 1-11 Mbps | -99 |
| 11g | 6 Mbps | -94 |
| | 54 Mbps | -77 |
| 11n HT20 | MCS0,8,16 | -94 |
| | MCS7,15,23 | -75 |
| 5 GHz | DATA RATE | SENSITIVITY |
| 11a | 6 Mbps | -93 |
| | 54 Mbps | -75 |
| 11n HT20 | MCS0,8,16 | -93 |
| | MCS7,15,23 | -75 |
| 11n HT40 | MCS0,8,16 | -90 |
| | MCS7,15,23 | -72 |
| 11ac VHT20 | MCS0 | -93 |
| | MCS9 | -70 |
| 11ac VHT40 | MCS0 | -90 |
| | MCS9 | -64 |
| 11ac VHT80 | MCS0 | -87 |
| | MCS9 | -61 |

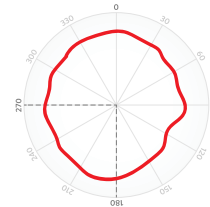
RADIATION PATTERNS



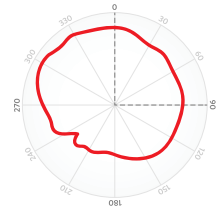
2.4GHz DUAL-BAND HORIZONTAL



2.4GHz DUAL-BAND VERTICAL



5GHz DUAL-BAND HORIZONTAL



5GHz DUAL-BAND VERTICAL

WARRANTY & SUPPORT

This Aerohive Networks device is backed by a limited lifetime hardware warranty. HiveCare Community Support is included with the Connect Access Point. Optional HiveCare Callback service may also be purchased.

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.

