AP122

Enterprise-grade 2x2, 2-stream, 802.11n/ac access point for coverage-oriented environments, as well as IoT and location-based services

AP122 provides dual 802.11n or 11n/ac performance with data rates up to 867 Mbps using existing 802.3af PoE infrastructure. Versatile and cost-effective, AP122 is optimally suited for coverage-oriented, low-to-medium capacity environments.

Running powerful HiveOS coupled with innovative distributed Cooperative Control architecture, AP122 brings the best of coverage and advanced 802.11ac technology. 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

- 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)

- On-device RADIUS server with directory integration support, Captive Web Portal and DHCP server

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.

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

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%

Environmental Compliance
• UL2043

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
• Wall Mount
• Ceiling Tile flush 15/16"
• Ceiling Tile Recessed 15/16", 3/8", 9/16" sold as an accessory
• Ceiling Tile Flush 3/8", 9/16" sold as an accessory
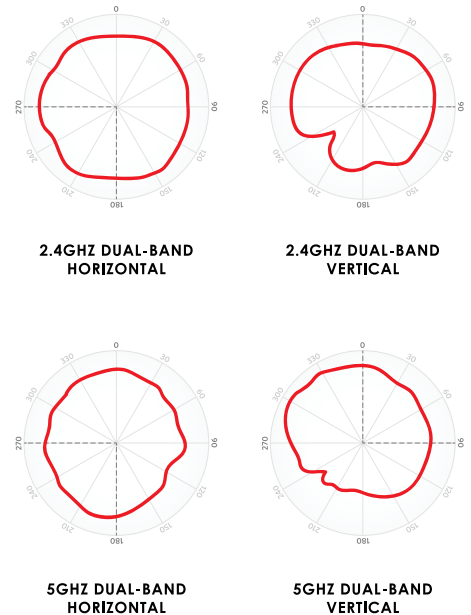• Suspend Mount sold as an accessory

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

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 1 year limited 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 Connected Experience.