

# HiveAP 110

## 802.11n access point



The **Aerohive HiveAP 110** is ideal for deployments where a single radio (802.11a/b/g/n) solution is sufficient, such as small retail environments, telecommuters and branch offices.

AEROHIVE NETWORKS HiveAP 110 series access point provides state-of-the-art high-performance 802.11n as well as a 10/100/1000 Ethernet port network service.

The HiveAP 110 is ideal for deployments where a single radio (802.11a/b/g/n) solution is sufficient, such as small retail environments, telecommuters and micro branch offices. Single radio APs can also be effective in low bandwidth demand environments where the benefits of a second radio are small because there are few clients vying for airtime. The HiveAP 110 can operate in either band—2.4 GHz or 5GHz—providing the opportunity to use the less congested 5GHz band if the clients are all 5GHz capable. The HiveAP 110 is the best value option for small wireless footprint requirements.

### Software Features

#### HiveOS

All HiveAPs support the feature-rich HiveOS service architecture. HiveOS is an implementation of Aerohive's Cooperative Control Architecture which enables multiple APs to organize into groups or "hives," that share control information enabling functions such as fast layer-2/layer-3 roaming, cooperative RF management, security and mesh networking without requiring a dedicated system controller. The resulting feature-rich capability enables a next generation wireless LAN architecture, called a Cooperative Control Wireless LAN Architecture. This architecture provides the benefits of a controller-based implementation, yet has a lower deployment/ownership cost, is more reliable, more scalable, higher performing and more suitable for today's proliferation of wireless applications than controller-based architectures.

For product information on HiveOS, visit [aerohive.com/products/software-management/hiveos](http://aerohive.com/products/software-management/hiveos)

#### Network Management Solutions

Aerohive's HiveManager NMS is a central management solution for Aerohive HiveAPs. HiveManager supports simple policy creation, firmware upgrades, configuration updates, and centralized monitoring throughout the entire Aerohive deployment, whether building-wide, campus-wide, or global - all from a single console. Because the HiveManager is not actively involved in passing traffic or in making forwarding decisions, it eliminates the traffic bottlenecks and complexities of controller-based solutions, particularly in geographically distributed environments. As a result, control is distributed, while management is centralized. Essentially, the HiveManager solution delivers the benefits of both autonomous APs and controller-based solutions, without the drawbacks of either approach.

Aerohive's HiveManager NMS can be delivered two ways:

- HiveManager Online—a cloud-based management service from Aerohive
- HiveManager VMware virtual appliance—an on-premise VM management solution

For more information visit [aerohive.com/products/software-management/hivemanager](http://aerohive.com/products/software-management/hivemanager)

### Warranty and Support

Every Aerohive Networks HiveAP 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](http://www.aerohive.com/support).

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



## Product Specifications

### Mounting

- Desktop
- Wall Mount
- Ceiling Tile Clips

### Physical Security

- Kensington security lock point

### Single Dual Band Radio (a/b/g/n)

#### Radio Specifications—802.11a

- 5.150–5.850 GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- 24 dBm Transmit Power
- 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
- 20 dBm Transmit Power
- 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
- 22 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 & 5.150–5.950 GHz Operating Frequency
- 802.11n Modulation
- 24 dBm Transmit Power
- 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

### Antennas

- 2x Integrated dual band 2.4-2.5 and 5.1-5.8 GHz Omnidirectional antennas, 4.0 dBi gain@2.4GHz, 2.0 dBi gain@5GHz

### Interfaces

- Autosensing 10/100/1000 Base-T Ethernet Port
- Power over Ethernet (PoE) capable (802.3af) Ethernet Port
- 1x Reset Pinhole

### Physical

- WxHxD: 6.5 x 6.5 x 2 in. (16.51 x 16.51 x 5.08 cm)
- 1.75 lbs (0.8 kg)

### Environmental

- Operating: -0 to +40°C, Storage: -40 to +85°C
- Humidity: 95%

### Environmental Compliance

- UL 2043 (Plenum)

### Power Options

- 802.3af Power over Ethernet (PoE) port
- 48v DC external power adapter (sold separately)

### Power Specification

- AC/DC power adapter:
  - Input: 100–240 VAC
  - Output: 48 V/0.625 A
- PoE nominal input voltages: 48 V, 0.35A (802.3af)
- Typical power consumption: 7w
- RJ-45 power input pins: Wires 4, 5, 7, 8 or 1, 2, 3, 6

### Receive Sensitivity

At Highest Datarate

Standard	Sensitivity
802.11b	-87
802.11g	-76
802.11n (2.4) 20 MHz	-73
802.11n (2.4) 40 MHz	-71

## Features & Benefits

### Flexible Hardware Platform

- Single radio provides support of 802.11a/n or 802.11b/g/n connections with no degradation in performance
- Automatic or dedicated mesh backup
- Plenum Rated APs for indoor, office environments
- Supports 802.3af PoE or a standard power adapter

### Innovative Design

- Low profile design blends well into an office environment
- Feature optimized hardware design
- Low-distraction indicators appear as gently glowing rather than bright blinking lights

## 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)

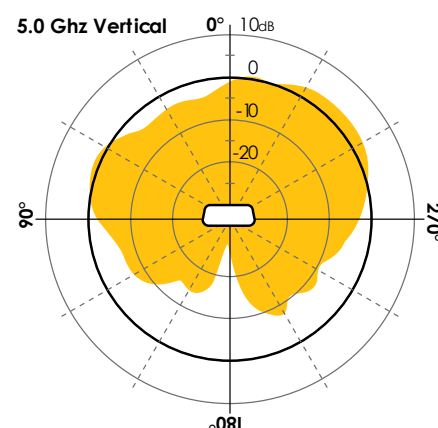
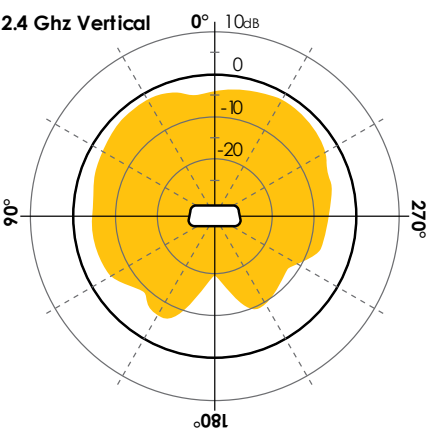
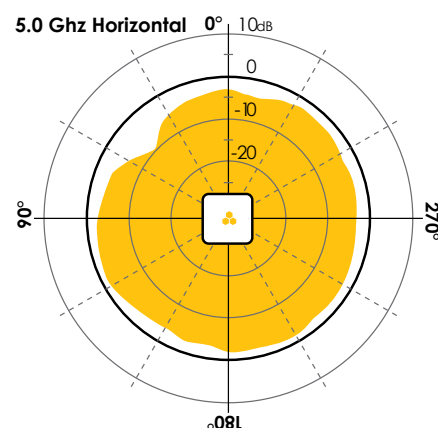
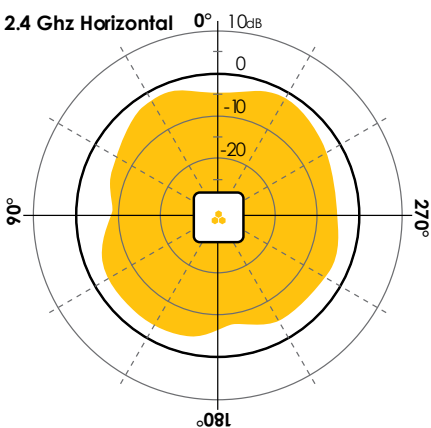
### HW QoS Features

- Marking and policing–WMM™ (802.11e) for wireless, 802.1p and/or DiffServ
- Wi-Fi CERTIFIED WMM
- WMM power save (U-APSD)

### Anti-Theft

- Designed to work with Kensington-style locks
- Tamper-proof security screw (with bracket option)

## RF Coverage Maps



SKU	Description
<b>HiveAPs</b>	
AH-AP-110-N-FCC	HiveAP 110, Plenum Rated, one 802.11a/b/g/n radio, one 10/100/1000 Ethernet (PoE), FCC regulatory domain w/o power supply
AH-AP-110-N-W	HiveAP 120, Plenum Rated, one 802.11a/b/g/n radio, one 10/100/1000 Ethernet (PoE), configurable regulatory domain w/o power supply
<b>AP Accessories</b>	
AH-ACC-Serial-DB9	Serial Console Cable
AH-ACC-Serial-RJ45	RJ45 to DB9 Serial Console Cable
AH-ACC-PWR-30W-US, -UK, -EU	30W Power Supply w/ power cord for US, UK, EU
AH-ACC-INJ-20W-US, -UK, -EU	20W POE power injector for HiveAP 100 series for US, UK, EU
AH-ACC-PWR-CBL-US, -UK, -EU	Power Cord for US, UK, EU
AH-ACC-BKT-120	HiveAP 120/110 wall and ceiling mounting bracket with security screw