

# HiveAP 320

## 802.11n access point

AEROHIVE NETWORKS HiveAP 320 series access point (AP) is a high performing and highly reliable 802.11n access point. The Hive AP 320 provides high performance dual concurrent (2.4GHz and 5GHz) 802.11n (3x3) MIMO as well as dual 10/100/1000 Ethernet port service.

The HiveAP 320 is a durable, enterprise-grade, high performance (3x3) MIMO solution, designed for high bandwidth demand wireless enterprise environments. With three radios and the ability to provide service concurrently on both 2.4Ghz and 5Ghz bands, the HiveAP 320 can provide up to an aggregate data rate of 600 Mbps. The HiveAP 320 provides both mesh and support for legacy 802.11a, b, and g clients, through Aerohive's industry unique and resilient controller-less architecture.

### 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.



The **Aerohive HiveAP 320** is a durable, enterprise-grade, high performance (3x3) MIMO solution, designed for high bandwidth demand wireless enterprise environments.



## Product Specifications

### Mounting

- Desktop
- Wall Mount
- Ceiling Tile Clips

### Physical Security

- Kensington security lock point
- Tamper proof security screw

### Radio Specifications—802.11a

- 5.150–5.950 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—802.11b

- 2.4–2.5 GHz Operating Frequency
- Direct-Sequence Spread-Spectrum (DSSS) Modulation
- 20 dBm (100 mW) 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
- 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 & 5.150–5.950 GHz Operating Frequency
- 802.11n Modulation
- 20 dBm (100 mW) Transmit Power
- Rates (Mbps): MCS0 - MCS15 (6.5Mbps - 300Mbps)
- 2x3, 3x3 Multiple-In, Multiple-Out (MIMO) Radio
- HT20 and HT40 High-Throughput (HT) Support
- A-MPDU and A-MSDU Frame Aggregation

### Antennas

- 3x Integrated single band, 2.4–2.5 GHz Omni-directional antennas, 2.0 dBi gain
- 3x Integrated single band, 5.1–5.8 GHz Omni-directional antennas, 2.0 dBi gain

### Interfaces

- 2x autosensing 10/100/1000 Base-T Ethernet Ports
- Power over Ethernet (PoE) capable (802.3af & pre-802.3at) Ethernet Port
- Link Aggregation supported via Ether channel (link aggregation at 10/100 only)
- 1x Serial RJ45 port (bits per second: 9600, data bits: 8, parity: none, stop bits: 1, flow control: none)
- 1x Reset Pinhole

### Physical

- WxHxD: 7.875 in. x 1.5 in. x 7.875 in. (20 cm x 3.8 cm x 20 cm)
- 2 lbs (0.68 kg)

### Environmental

- Operating: 0 to +40°C, Storage: -20 to +70°C
- Humidity: 95%

### Environmental Compliance

- UL 2043

### Power Options

- Dual 802.3af and/or pre-802.3af Power over Ethernet (PoE) ports w/ SmartPoE intelligent power management
- 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, 0.35 A, (802.3af)–48V, 0.625 A (Pre-802.3af)
- RJ-45 power input pins: Wires 4, 5, 7, 8 or 1, 2, 3, 6

### Receive Sensitivity

At Highest Datarate

Standard	Sensitivity
802.11b	-91
802.11g	-83
802.11n (2.4) 20 MHz	-75
802.11n (2.4) 40 MHz	-71
802.11a	-82
802.11n (5) 20 MHz	-74
802.11n (5) 40 MHz	-70

## Features & Benefits

### Flexible Hardware Platform

- Multiple radios provide concurrent 802.11a/n and 802.11b/g/n connections with no degradation in performance
- Automatic or dedicated mesh backup
- Dual Ethernet ports for dual-homed data load connectivity.
- Plenum Rated APs for indoor, office environments
- Supports 802.3af PoE or 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

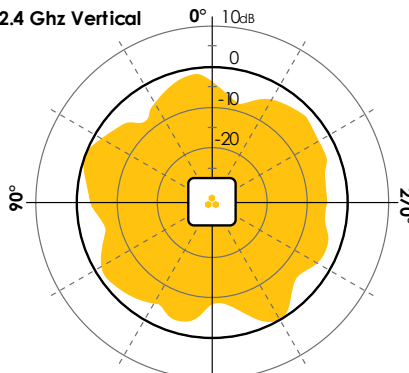
- Designed to work with Kensington-style locks
- Tamper-proof security screw (with bracket option)

### High Availability

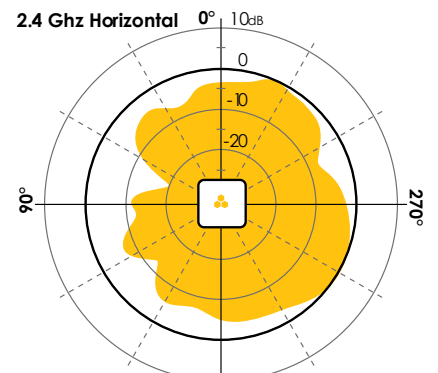
- Dual Ethernet ports for dual-homed data load connectivity

## RF Coverage Maps

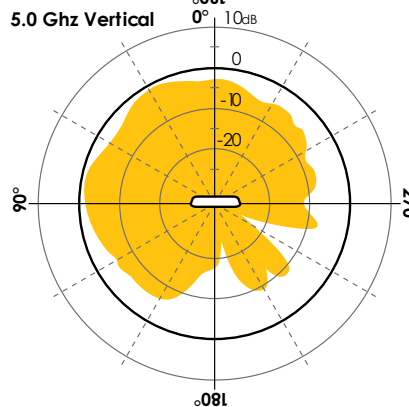
2.4 Ghz Vertical



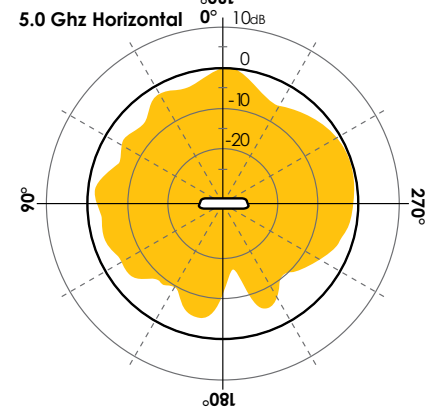
2.4 Ghz Horizontal



5.0 Ghz Vertical



5.0 Ghz Horizontal



SKU	Description
<b>HiveAPs</b>	
AH-AP-320-N-FCC	HiveAP 320, Plenum Rated, one 802.11b/g/n radio, one 802.11a/n radio, two 10/100/1000 Ethernet (PoE), mounting bracket, FCC regulatory domain without power supply
AH-AP-320-N-W	HiveAP 320, Plenum Rated, one 802.11b/g/n radio, one 802.11a/n radio, two 10/100/1000 Ethernet (PoE), mounting bracket, configurable regulatory domain without power supply
<b>AP Accessories</b>	
AH-ACC-Serial-DB9	Serial Console Cable
AH-ACC-Serial-RJ45	RJ45 to DB9 Serial Console Cable
AH-AP-PWR-30W-US, -UK, -EU	30W Power Supply w/ power cord for US, UK, EU
AH-ACC-INJ-30W-US, -UK, -EU	30W Indoor Rated PoE Power Injector power cord for US, UK, EU
AH-ACC-PWR-CBL-US, -UK, -EU	Power Cord for US, UK, EU
AH-ACC-PWR-CBL-WP-US, -UK, -EU	Waterproof Power Cord for US, UK, EU
AH-ACC-9-16-CLIP-KIT	HiveAP 320/340 T-Bar Twist Clip, 9/16" spacing
AH-ACC-SEC-BIT-3PK	HiveAP 320 security screw bit (3pk)