Aerohive AP330

High Performance 802.11n Dual-Radio 3x3:3 access point

AEROHIVE NETWORKS AP330 access points are high performance 802.11n access points (APs) with cloud-enabled management, on-demand provisioning, and integrated tools like spectrum analysis and application visibility and control.

The AP330 provides high-performance 3x3 three spatial stream MIMO on dual concurrent (2.4Ghz and 5Ghz) 802.11n access radios and is designed for high bandwidth wireless enterprise environments. In addition, the AP330 can support legacy 802.11a, b, and g clients and interoperate with the rest of the Aerohive Cooperative Control devices to provide a seamless enterprise-class experience for all connected users.

Key Features and Benefits

Cooperative Control
All Aerohive access points are built upon the deep, feature rich HiveOS operating system. HiveOS is the backbone of the Aerohive Cooperative Control architecture, and allows the access points to organize into groups or "hives" that coordinate advanced features such as layer 2/ layer 3 roaming, cooperative RF management, security information, and mesh networking without requiring a controller. Cooperative Control provides all the benefits of coordinated, nextgeneration Wi-Fi with lower Total Cost of Ownership (TCO), more reliability, more scalability, higher performance, and with a focus on truly optimizing mobility in a mobile first enterprise.

High Performance, Secure Wi-Fi with On-Demand Provisioning
The Aerohive AP330 is a 3x3:3 high-performance access point with integrated features such as RADIUS, 802.1X security, Captive Web Portal, and cloud-based management. By integrating with the Aerohive Cloud Services Platform, the AP330 can be brought online simply by plugging it in. It will automatically find the HiveManager, either in Aerohive's public cloud or on a customer premises, download complete configuration, security, and corporate policies, and instantly provide service for connected devices.

Integrated Application Priority and Control
By using the robust Quality of Service (QoS) and stateful firewall built into Aerohive access points, the AP330 supports optimizing user application experience on the network. Aerohive access points allow an administrator to create customized user profiles based on context, such as identity of the user, device type, location, and time of day, to prioritize or block applications based on what is critical to that particular user. This user-focused approach ensures every user experience is optimized for mobility.

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 etherchannel or backup connectivity.
- Plenum Rated APs for indoor, office environments
- Supports 802.3af PoE or standard power adapter
- USB interface for future 3G/4G services
- Hardware acceleration for IPsec services

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)
- 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)

Advanced Features
- Integrated application control and prioritization
- On-device RADIUS with directory support, Captive Web Portal, DHCP server, and spectrum analysis
  - Max 256 concurrent RADIUS authenticated users
  - Max 512 DHCP clients per AP
- Voice-Enterprise support

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Product Specifications

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 OperatingFrequency
- 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–MCS23 (6.5Mbps - 450Mbps)
- 3x3:3 Stream Multiple-In, Multiple-Out (MIMO) Radio
- HT20 High-Throughput (HT) Support (for both 2.4 GHz and 5 GHz)
- A-MPDU and A-MSDU Frame Aggregation

Mounting
- Desktop
- Wall Mount bracket included
- Ceiling Tile Bracket 15/16" included, 9/16" sold as an accessory
- Recessed Ceiling Tile Bracket 15/16" sold as an accessory
- Suspend Mount sold as an accessory
- Plenum Mount sold as an accessory

Antennas
- 3x Integrated single band, 2.4-2.5 GHz Omni-directional antennas, 6.0 dBi peak gain
- 3x Integrated single band, 5.1-5.8 GHz Omni-directional antennas, 6.0 dBi peak gain

Interfaces
- 2x autosensing 10/100/1000 Base-T Ethernet Ports
- 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)
- USB 2.0 port (with power adapter only)
- 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%

Power Options
- 802.3af and/or 802.3at Power over Ethernet (PoE) port
- 12v DC external power adapter (sold separately)

Power Specification
- AC/DC power adapter:
  - Input: 100–240 VAC
  - Output: 12 V/0.625 A
- PoE nominal input voltages: 48V, 0.35A, (802.3af) – 48V, 0.625A (802.3at)
- RJ-45 power input pins: Wires 4,5,7,8 or 1,2,3,6
- 802.3af compliant with Cat-5 cable or higher

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.

Rate	2.4GHz		5GHz	
	TX Power	RX Sensitivity	TX Power	RX Sensitivity
802.11b				
1 Mbps	23	-100	n/a	n/a
11 Mbps	21	-92	n/a	n/a
802.11b				
6 Mbps	23	-96	23	-95
54 Mbps	20	-81	20	-80

Rate	2.4GHz		5GHz	
	TX Power	RX Sensitivity	TX Power	RX Sensitivity
802.11n HT20				
MCS0	23	-96	23	-95
MCS7	20	-81	20	-80
MCS8	23	-94	22	-93
MCS15	20	-79	19	-78
MCS16	22	-93	21	-92
MCS23	19	-77	18	-73

RF Coverage Maps

2.4 Ghz Horizontal

2.4 Ghz Vertical

5 Ghz Horizontal

5 Ghz Vertical
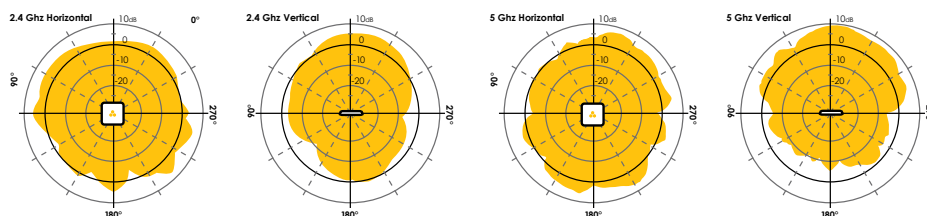
SKUs & Accessories

SKU	Description
Aerohive APs	
AH-AP-330-N-FCC	AP330, 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-330-N-W	AP330, 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
AP Accessories	
AH-ACC-PWR-24W-XX	24W power supply for AP330 and 350 with US, EU, UK, AU power plug
AH-ACC-INJ-30W-XX	30W indoor rated PoE power injector with US, EU, UK, AU power cord
AH-ACC-SEC-BIT-300-100-3PK	AP100 and AP300 series security screw bit (3pk)
AH-ACC-BKT-300-100	AP100 and AP300 series wall mounting bracket
AH-ACC-9-16-CLIP-300-100	AP100 and AP300 series 9/16" ceiling mount brackets for recessed and non-recessed ceiling tiles
AH-ACC-SERIAL-RJ45	RJ45 to DB9 Serial Console Cable

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.