Aerohive **AP350**

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

AEROHIVE NETWORKS AP350 access points are rugged, 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 AP350 provides high-performance 3x3 three spatial stream MIMO on dual concurrent (2.4Ghz and 5Ghz) 802.11n access radios and is designed for rugged, high bandwidth wireless enterprise environments. In addition, the AP350 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, next-generation 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 AP350 is a rugged 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 AP350 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 AP350 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.

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.

The **AP350** is a durable, enterprise-grade, high performance two radio (3x3) three spatial stream MIMO 802.11n Access Point for challenging indoor environments and provides the best range of all Aerohive APs.

Aerohive Networks, Inc.
330 Gibraltar Drive
Sunnyvale, California 94089 USA
phone 408.510.6100
toll-free 866.918.9918
fax 408.510.6199
www.aerohive.com

Product Specifications

Radio Specifications—802.11a
- 5.150–5.950 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
- 2.4–2.5GHz Operating Frequency
- Orthogonal Frequency Division Multiplexing (OFDM) Modulation
- 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
- 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

Antennas
- 6xRP-SMA antenna connections for external antennas
- Articulated antennas available for ceiling or flexible mounting
- Non-articulated antennas available for wall mounting

Mounting
- 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

Interfaces
- 2x autosensing 10/100/1000Base-T Ethernet Ports
- Link Aggregation supported via Ether channel (link aggregation at 10/10 oonly)
- 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: 8.5 x 1.25 x 8 in. (21.5 x 3.2 x 20.3 cm)
- 3lbs (1.36 kg)

Environmental
- Operating: -20 to +55˚C, Storage: -40 to +80˚C,
- Humidity: 95%

Environmental Compliance
- UL 2043

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

Power Specifications
- AC/DC power adapter:
  –Input: 100–240VAC
  –Output: 12V/2A
- 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 Sensitvity	TX Power	RX Sensitvity
802.11b				
1 Mbps	23	-100		
11 Mbps	21	-92		
802.11g/a				
6 Mbps	23	-96	23	-95
54 Mbps	20	-81	20	-80
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

Features & Benefits

Flexible Hardware Platform
- Radios provide concurrent 802.11a/n & 802.11b/g/n connections without degradation in performance
- Automatic or dedicated mesh backup
- Dual Ethernet ports etherchannel or backup.
- Plenum Rated APs for indoor, office environments
- Supports 802.3af PoE or standard power adapter
- Hardware acceleration for IPsec services
- Extended Temperature Range
- USB interface for future 3G/4G services

Innovative Design
- Low profile design blends into an office environment
- Low-distraction indicator 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)

Anti-theft
- Designed to work with Kensington-style locks
- Tamper-proof security screw (with bracket option)
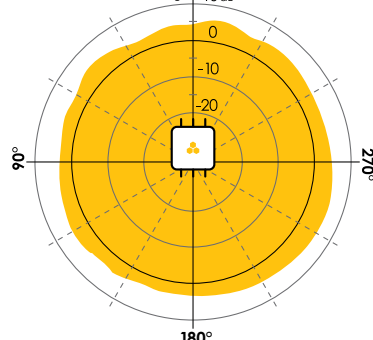
Hardware QoS Features
- Marking and policing–WMM™ (802.11e) for wireless, 802.1p and/or DiffServ
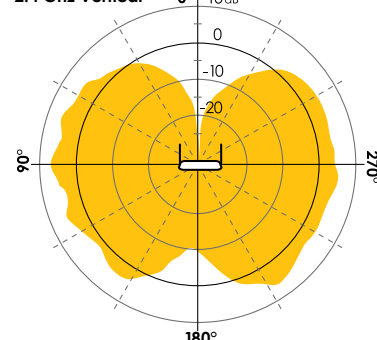- Wi-Fi CERTIFIED WMM, WMM power save (U-APSD)

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
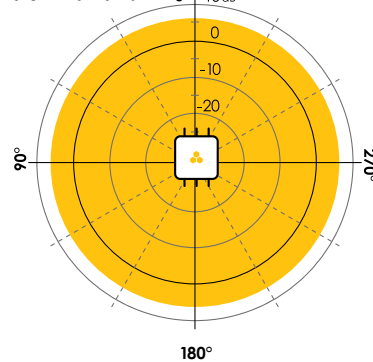- Voice-Enterprise support
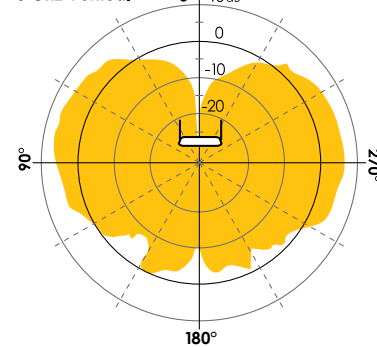
RF Coverage Maps

2.4 Ghz Horizontal

2.4 Ghz Vertical

5 Ghz Horizontal

5 Ghz Vertical

SKU	Description
Aerohive APs	
AH-AP-350-N-FCC	Aerohive AP350, 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-350-N-W	Aerohive AP350, 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-350-ANT-KIT	Aerohive AP350 articulated indoor antenna kit (3x2.4Ghz 4dBi and 3x5Ghz 4dBi antennas)
AH-ACC-ANT-4-2G	RP-SMA female indoor 4dBi articulated antenna for AP 350
AH-ACC-ANT-4-5G	RP-SMA female indoor 4dBi articulated antenna for AP 350
AH-ACC-350-ANT-NART-KIT	AP350 non-articulated indoor wall antenna kit (3x2.4Ghz 2dBi and 3x5Ghz 2dBi antennas)
AH-ACC-350-ANT-NART-2G	2.4Ghz RP-SMA female indoor 2dBi non-articulated antenna for wall-mount deployment for AP350
AH-ACC-350-ANT-NART-5G	5Ghz RP-SMA female indoor 2dBi non-articulated antenna for wall-mount deployment for AP350
AH-ACC-PWR-24W-XX	24W power supply for AP330 and 350 with US, EU, UK, AU power plug
AH-ACC-350-ANT-75	5ghz RP-SMA female indoor 7.5dBi direction antenna for AP350
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-15-16-CLIP-300-100	AP100 and AP300 series 15/16" ceiling mount brackets for recessed and non-recessed ceiling tiles
AH-ACC-SERIAL-RJ45	RJ45 to DB9 Serial Console Cable