

Aerohive AP550

Performance optimized indoor 802.11ac Wave 2 Dual-Radio 4x4:4 MIMO access point with internal antenna

Today many bandwidth-hungry critical business applications are accessed over wireless networks. Wi-Fi infrastructures are expected to provide required speed and capacity, and user experience is measured beyond jitter and latency. Number and types of mobile devices that are connecting to Wi-Fi is exponential and large numbers of new devices that do not require human intervention are joining wireless networks every day. AP550 is engineered for these very demanding environments, featuring 802.11ac Wave 2 dual-radio, 4x4:4 MIMO with the software defined radio that allows IT managers to enable 802.11ac 5 GHz performance on both radios. Built-in BLE (Bluetooth Low-Energy) radio enables indoor proximity and location tracking.

AP550 is powerful enough to provide all the enterprise-grade features including built-in application visibility and control, RADIUS, DHCP, Captive Web Portal, WIPS, Location services and Spectrum analysis.

Key Benefits

- High performance with software selectable radio and RF-IQ antenna technology for instant adaptation to the capacity needs
- Managed from public or private cloud-based HiveManager management platform
- Integrated BLE (Bluetooth Low-Energy) and USB interface for IoT readiness
- Application Visibility and Control functionality, including reporting, stateful firewall, and powerful Aerohive Quality of Service (QoS) on the access point
- Enterprise software features including RADIUS, DHCP server, location services and spectrum analysis are combined with hardware assisted security and zero-touch deployment

Features

Flexible Hardware Platform

- 4x4 Wave 2 802.11ac Access Point with MU-MIMO capability and 4 spatial streams
- Software configurable radios allowing either two 5 GHz 802.11a/n/ac radios (for High Density High Capacity deployments) or concurrent 802.11a/n/ac and 802.11b/g/n radios
- Automatic or dedicated mesh failover
- Built-in Bluetooth Low Energy for Beacon and other applications
- IoT readiness with USB port for other wireless technologies
- PoE redundancy between the 2 Ethernet ports for high availability



Advanced Features

- Integrated Application Visibility and Control (AVC)
- Advanced Automatic Channel Selection Protocol (ACSP) for optimum radio performance
- On-device RADIUS Server, Captive Web Portal, DHCP server, and spectrum analysis

Security Features

- Trusted Platform Module (TPM)– Hardware-based key storage and encryption
- Wireless privacy & authentication Wi-Fi CERTIFIED WPA and WPA2, Private PSK
- Granular user profile-based security policies
- Encryption: AES/CCMP, TKIP (Legacy profiles), and RC4 (WEP only)
- 802.1p and/or DiffServ Classification, Marking and policing–WMM (802.11e) for wireless
- Wi-Fi CERTIFIED WMM
- WMM power save (U-APSD)

Aerohive Access Point

Part Number	Description
AH-AP-550-AC-FCC	AP550 Indoor plenum rated, 2 radio 4x4:4 802.11a/b/g/n/ac Access Point, MU-MIMO, 2 10/100/1000 Ethernet ports, FCC regulatory domain, without power supply (Internal Antenna only)
AH-AP-550-AC-CAN	AP550 Indoor plenum rated, 2 radio 4x4:4 802.11a/b/g/n/ac Access Point, MU-MIMO, 2 10/100/1000 Ethernet ports, Canadian regulatory domain, without power supply (Internal Antenna only)
AH-AP-550-AC-W	AP550 Indoor plenum rated, 2 radio 4x4:4 802.11a/b/g/n/ac Access Point, MU-MIMO, 2 10/100/1000 Ethernet ports, FCC regulatory domain, without power supply (Internal Antenna only)

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 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
- 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
- Rates (Mbps): MCS0–MCS23 (6.5Mbps - 300Mbps)
- 4x4 4-Stream Multiple-In, Multiple-Out (MIMO) Radio
- HT20 High-Throughput (HT) Support for 2.4 GHz and 5 GHz

- HT40 High-Throughput (HT) Support for 5 GHz
- A-MPDU and A-MSDU Frame Aggregation

Radio Specifications—802.11ac

- 5.150–5.850 GHz Operating Frequency
- 802.11ac Modulation (256-QAM)
- Rates (Mbps): MCS0–MCS9 (6.5Mbps - 1733Mbps), NSS = 1-4.
- 4x4 4-Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80 support

Included Mounting Options

- Wall Mount
- Ceiling Tile flush 15/16"

Mounting

- Desktop
- 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
- Plenum Mount sold as an accessory
- Silhouette and Interlude sold as an accessory

Antennas

- 12x WiFi internal antennas (4x 2.4 GHz antennas and 8x 5 GHz antennas)
- 1x BLE internal antenna

Interfaces

- Two Autosensing 10/100/1000 Base-T Ethernet ports. PoE (Power over Ethernet 802.3af) capability on both the ports for redundancy and high availability
- RJ-45 console port
- Standard USB port

Physical

- WxDxH: 8.15" x 8.15" x 2.17" [208mm x 208mm x 55mm]
- Weight: 2.4 lbs (1.1 Kg)

Environmental

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

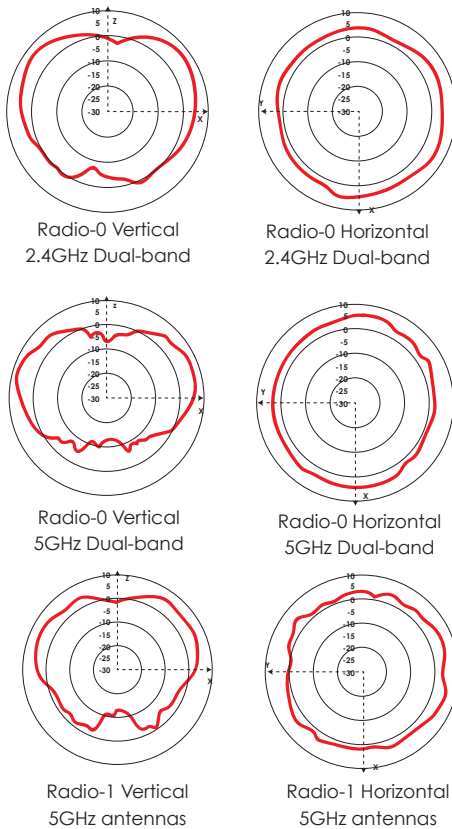
Environmental Compliance

- UL2043

Power Specifications

- IEEE 802.3at PoE Power required for full 4x4:4 MU-MIMO, dual 5 GHz, USB, BLE and 2 Ethernet ports to operate

Radiation Patterns



Transmit Power Table

2.4 GHz	Data Rate	Power dBm
11b	1,2,5,11	21
11g	6 Mbps	20
	36 Mbps	18
	48 Mbps	17
	54 Mbps	16
11n HT20	MCS7,15,23	16
	MCS6,14,22	17
	MCS5,13,21	18
	MCS0,1,2,3,4	20
	MCS8,9,10,11,12	
MCS16,17,18,19,20	20	
5 GHz	Data Rate	Power dBm
11a	54 Mbps	15
	48 Mbps	16
	36 Mbps	18
	6 Mbps	19
	11n HT20	MCS7,15,23
MCS6,14,22		16
MCS5,13,21		18
MCS0,1,2,3,4,8,9,10,11		19
MCS12,16,17,18,19,20		
11n HT40	MCS7,15,23	14
	MCS6,14,22	16
	MCS5,13,21	18
	MCS0,1,2,3,4,8	19
	MCS9,10,11,12,16	
	MCS17,18,19,20	
11ac VHT	256QAM@3/4 Code Rate	12
	256QAM@5/6 Code Rate	11

Receiver Sensitivity Table

2.4 GHz	Data Rate	Sensitivity	
11b	1 Mbps	-100	
	11 Mbps	-93	
	11g	6 Mbps	-95
		36 Mbps	-86
		48 Mbps	-82
54 Mbps		-80	
11n HT20	MCS0, 8, 16	-95	
	MCS5,13, 21	-81	
	MCS6,14, 22	-79	
	MCS7, 15, 23	-77	
5 GHz	Data Rate	Sensitivity	
11a	6 Mbps	-95	
	36 Mbps	-86	
	48 Mbps	-81	
	54 Mbps	-80	
11n HT20	MCS0, 8, 16	-91	
	MCS5, 13, 21	-78	
	MCS6, 14, 22	-76	
11n HT40	MCS7, 15, 23	-74	
	MCS0, 8, 16	-88	
	MCS5, 13, 21	-75	
11ac HT20	MCS6, 14, 22	-73	
	MCS0,7, 15, 23	-71	
	11ac HT40	Code Rate 3/4	-65
Code Rate 5/6		-63	
11ac HT40	Code Rate 3/4	-62	
	Code Rate 5/6	-60	
11ac HT80	Code Rate 3/4	-59	
	Code Rate 5/6	-57	

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 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.

Point of Sale & Barcode Solutions

POSMarket specialises in providing point of sale (POS), barcode and mobile data solutions for smart businesses. We service all industries including retail and hospitality, transport and logistics, government, healthcare, manufacturing and warehousing. Our expert team can provide solutions that can save your business money today.

Shop By Department

Barcode Scanners



- Barcode Readers
- Barcode Software
- Data Collectors



Mobile Computers

- Mobile Computers
- Data Collectors
- Vehicle Computers



Label Printers

- Desktop Printers
- Industrial Printers
- Mobile Printers



Point of Sale

- POS Systems
- Receipt Printers
- Scales



ID Card Printing

- ID Card Printers
- ID Software
- Card Printer Supplies



Media & Accessories

- Labels
- Ribbons
- Paper Rolls



Software

- Inventory Software
- Asset Tracking
- Barcode Software



Wireless

- Wifi Systems
- Pager Systems
- Site Surveys



RFID

- RFID Printers
- RFID Readers
- RFID Tags

Shop By Industry



Education/Libraries

Timesaving printing solutions to meet all your staff, student & asset identification needs. Need **Labels and Printers**? From **scanners to receipt printers**, whatever your needs, we are here to help.



Retail Stores

Keep customers coming back and keep stock from running out. Check out our range of **scanners, cash drawers, receipt printers and cash registers**.



Cafes/Restaurants

We can help you to decrease lines for your customers, complete tableside transactions, or reward patrons with **loyalty cards**. From cash registers to touch screen systems we can assist.



Warehouse Management

Our superior **warehousing solutions** will allow your business to provide comprehensive, up-to-date information and streamline your processes to improve efficiency.



Construction

Keep track of your inventory and stop inventory shrinkage. Our inventory tracking software allows you to easily keep control of your stock.



Hospitals/Healthcare

Improve patient care with the accurate identification of patients, medications, samples, treatments, lab results & records. We have a huge range of **label printers, consumables & scanners**.



Transport & Logistics

Track materials through your facility or through your supply chain using **labels, barcode scanners and portable data terminals**. Optimize your production and information flows.



Government

We can supply you with all your needs, from **receipt printers and cash drawers, to barcode scanners and label printers**. Less paperwork, data entry and time spent looking up records.



Mining

Rugged identification solutions help manage assets from the ground up. From **portable data terminals and scanners to software and printers**, we can find a solution to meet your needs.

Shop By Brand

