

AP230

Performance-optimized 802.11ac dual-radio 3x3:3 Access Point

AP230 sets a new price-to-performance standard for 802.11ac APs. By combining the latest in 3x3, 3-stream 802.11ac Gigabit Wi-Fi technology and advanced security and mobility management together into an economical package it allows you to deploy 802.11ac into every part of the network infrastructure – from corporate HQ to remote branches and to every campus and classroom.

The AP230 provides high-performance, dual concurrent 2.4Ghz 802.11n/g/b radio and 5Ghz 802.11ac/n/a radio with beamforming and interoperates with the rest of the Aerohive Cooperative Control devices to provide a seamless enterprise-class experience for all connected users. With HiveOS at its core and the ability to provide full Wi-Fi functionality on legacy POE infrastructure, the AP230 allows enterprises of all sizes to broadly deploy 802.11ac for their mobility future.

AP230 is a key component of the Aerohive Connect solution. Connect provides cloud-managed connectivity built on Aerohive's industry-first cooperative control Wi-Fi focused on optimizing speed and resilience. Connect is centrally managed from the cloud, allowing for simple, fast, and powerful management.



AEROHIVE CONNECT COMPONENTS



ENTERPRISE CONNECTIVITY

- IoT readiness with USB port
- Full performance with IEEE 802.3af power
- Trusted Platform Module (TPM) – Hardware-based key storage and encryption
- Dual GbE ports with link aggregation



CLOUD MANAGEMENT

- Network Device and Client Monitoring
- Global Search and Filter function
- Auto-Provisioning Tools for quick and easy deployment
- Network Health View
- Versatile RF Planning
- Guided Network Configuration Setup
- 802.1X and PSK Secured Networks
- Guest Access functionality with configurable Captive Web Portal



HIVECARE SUPPORT

- HiveCare Community Support: forum-based interactive support
- HiveCare Connect CallBack service (optional)
- Wide array of online resources and tools

PRODUCT SKUs

SKU	DESCRIPTION
AH-AP-230-AC-FCC	AP230, indoor plenum rated, 2 radio 3x3:3 802.11a/b/g/n/ac, 2 10/100/1000, USB, FCC regulatory domain, without power supply (Internal Antenna only)
AH-AP-230-AC-W	AP230, indoor plenum rated, 2 radio 3x3:3 802.11a/b/g/n/ac, 2 10/100/1000, USB, configurable regulatory domain, without power supply (Internal Antenna only)

PRODUCT SPECS

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
- 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)
- 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 - 1300Mbps), NSS = 1-3.
- 3x3:3 Stream Multiple-In, Multiple-Out (MIMO) Radio
- VHT20/VHT40/VHT80 support

TRANSMIT POWER TABLE

2.4 GHZ	DATA RATE	POWER (dBm)
11b	1,2,5,5,11	21
	6 - 24 Mbps	20
11g	36 Mbps	18
	48 Mbps	17
	54 Mbps	16
11n HT20	MCS0,8,16	20
	MCS5,13,21	18
	MCS6,14,22	17
	MCS7,15,23	16
5 GHZ	DATA RATE	POWER (dBm)
11a	6 - 24 Mbps	20
	36 Mbps	18
	48 Mbps	16
	54 Mbps	15
11n HT20	MCS0,8,16	20
	MCS5,13,21	18
	MCS6,14,22	17
	MCS7,15,23	16
11n HT40	MCS0,8,16	19
	MCS5,13,21	18
	MCS6,14,22	16
	MCS7,15,23	15
11ac VHT	256QAM@3/4 Code Rate	13
	256QAM@5/6 Code Rate	12

Note: Power shown is per transmit chain and is the maximum power that the radio is capable of. Power limits will be limited by local radio regulations.

WARRANTY & SUPPORT

This Aerohive Networks device is backed by a limited lifetime hardware warranty. HiveCare Community Support is included with the Connect Access Point. Optional HiveCare Callback service may also be purchased.

For complete support terms go to www.aerohive.com/support.

Included Mounting Options

- Wall Mount
- Ceiling Tile flush 15/16" and Wall Mount locking accessory included with AP

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

- 3x Integrated single band, 2.4-2.5 GHz Omni-directional antennas
- 3x Integrated single band, 5.1-5.8 GHz Omni-directional antennas

Interfaces

- Two Autosensing 10/100/1000 Base-T Ethernet ports. PoE/PoE+ capability on one of the ports
- RJ-45 console port
- Standard USB port

Physical

- WxDxH: 7.25" x 7.25" x 1.87" (18.4 cm x 18.4 cm x 1.87cm) [plus .25", mounting hardware – 2.12" (5.4 cm) H total]
- Weight: 1.6 lb (0.73 kg)

Environmental

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

RECEIVE SENSITIVITY TABLE

2.4 GHZ	DATA RATE	SENSITIVITY
11b	1 Mbps	-98
	11 Mbps	-91
11g	6 - 24 Mbps	-87
	36 Mbps	-84
	48 Mbps	-80
	54 Mbps	-78
11n HT20	MCS0,8,16	-89
	MCS5,13,21	-77
	MCS6,14,22	-74
	MCS7,15,23	-74
5 GHZ	DATA RATE	SENSITIVITY
11a	6 - 24 Mbps	-90
	36 Mbps	-82
	48 Mbps	-78
	54 Mbps	-77
11n HT20	MCS0,8,16	-87
	MCS5,13,21	-77
	MCS6,14,22	-75
	MCS7,15,23	-73
11n HT40	MCS0,8,16	-93
	MCS5,13,21	-79
	MCS6,14,22	-75
	MCS7,15,23	-71
11ac HT20	256QAM@3/4 Code Rate	-70
11ac HT40	256QAM@3/4 Code Rate	-67
	256QAM@5/6 Code Rate	-65
11ac HT80	256QAM@3/4 Code Rate	-64
	256QAM@5/6 Code Rate	-62

Environmental Compliance

- UL2043

Power Options (Sold Separately)

- 802.3af (minimum required) and/ or 802.3at Power over Ethernet PoE Injector
- 12v DC external power adapter
- Aerohive switch products

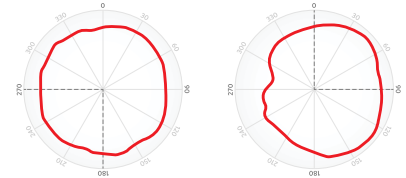
Power Specifications

- AC/DC power adapter: Input: 100–240 VAC, Output: 12v/2.0A
- 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
- Power Draw : Typical 11.41W, Max 16.7W

Certifications

- WPA/WPA2
- Voice-Enterprise

RADIATION PATTERNS



2.4GHZ HORIZONTAL

2.4GHZ VERTICAL



5GHZ HORIZONTAL

5GHZ VERTICAL