

High performance, general-purpose, 802.11ac Wave 2 dual-radio 3x3:3 Access Point with external antennas

AP245X combines high-performance 802.11ac Wave2 with the simplicity of Aerohive's distributed, cooperative architecture. This access point has external antenna connectors, which is perfect for challenging environments where deployments require specialized antennas in addition to superior performance and IOT readiness.

This power optimized access point line uniquely incorporates next generation 802.11ac, integrated BLE radio for iBeacon and other beacon applications and a standard USB port for variety of IoT applications. AP245X smoothly integrates into your existing 802.3af or 802.3at power and network infrastructure.

AP245X 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

Aerohiv



PRODUCT SKUs

| SKU | DESCRIPTION |
|-------------------|---|
| AH-AP-245X-AC-FCC | AP245X Indoor plenum rated Access Point, 2 radio 3x3:3 802.11 a/b/g/n/ac, MU-MIMO, external antennas, 2 10/100/1000 Ethernet ports, FCC regulatory domain, without power supply (Antennas sold separately) |
| AH-AP-245X-AC-W | AP245X Indoor plenum rated Access Point, 2 radio 3x3:3 802.11 a/b/g/n/ac, MU-MIMO, external antennas, 2 10/100/1000 Ethernet ports, configurable regulatory domain, without power supply (Antennas sold separately) |

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—802.11a

- 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 | 20 |
| | 54 Mbps | 17 |
| 11g | 48 Mbps | 18 |
| | 36 Mbps | 19 |
| | 6 Mbps | 19 |
| | MC\$7,15,23 | 17 |
| | MC\$6,14,22 | 18 |
| 11n HT20 | MC\$5,13,21 | 19 |
| 110 8120 | MCS0, 1, 2, 3, 4 | 19 |
| | MC\$8,9,10,11,12 | 19 |
| | MC\$16,17,18,19,20 | 19 |
| 5 GHZ | DATA RATE | POWER (dBm) |
| | 54 Mbps | 17 |
| 11a | 48 Mbps | 18 |
| | 36 Mbps | 19 |
| | 6 Mbps | 19 |
| | MC\$7,15,23 | 17 |
| | MCS6,14,22 | 18 |
| 11n HT20 | MC\$5,13,21 | 19 |
| | MC\$0,2,3,4,8,9,10,11 | 19 |
| | MC\$12,16,17,18,19,20 | 19 |
| | MC\$7,15,23 | 17 |
| | MCS6,14,22 | 18 |
| 11n HT40 | MC\$5,13,21 | 19 |
| | MCS0,1,2,3,4,8 | 19 |
| | MC\$9,10,11,12,16 | 19 |
| | MC\$17,18,19,20 | 19 |
| 11 1/117 | 256QAM@3/4 Code Rate | 14 |
| 11ac VHT | 256QAM@5/6 Code Rate | 13 |

Included Mounting Options Wall Mount

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

Mountina

- 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 RP-SMA connector 2.4 GHz
- 3x RP-SMA connector 5 GHz 1x BLE internal antenna

Interfaces

- Two Autosensing 10/100/1000 Base-T Ethernet ports. PoE (Power over Ethernet 802.3af) ca pability 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: 1.8 lb (0.81 kg)

RECEIVE SENSITIVITY TABLE

| 2.4 GHZ | DATA RATE | SENSITIVITY |
|-----------|---------------|-------------|
| 11b | 1 Mbps | -100 |
| IID | 11 Mbps | -93 |
| | 6 Mbps | -95 |
| 11g | 36 Mbps | -86 |
| ng | 48 Mbps | -82 |
| | 54 Mbps | -80 |
| | MC\$0,8,16 | -95 |
| 11n HT20 | MC\$5,13,21 | -81 |
| 110 8120 | MC\$6,14,22 | -79 |
| | MC\$7,15,23 | -77 |
| 5 GHZ | DATA RATE | SENSITIVITY |
| | 6 Mbps | -95 |
| | 36 Mbps | -86 |
| 11a | 48 Mbps | -81 |
| | 54 Mbps | -80 |
| | MC\$0,8,16 | -91 |
| 11n HT20 | MC\$5.13.21 | -78 |
| 1111 1120 | MC\$6,14,22 | -76 |
| | MC\$7,15,23 | -74 |
| | MC\$0,8,16 | -88 |
| 11n HT40 | MC\$5,13,21 | -75 |
| 110 8140 | MC\$6,14,22 | -73 |
| | MC\$7,15,23 | -71 |
| 11ac HT20 | Code Rate 3/4 | -65 |
| ITOC HIZU | Code Rate 5/6 | -63 |
| 11ac HT40 | Code Rate 3/4 | -62 |
| 110C H140 | Code Rate 5/6 | -60 |
| 11ac HT80 | Code Rate 3/4 | -59 |
| ITAC HINU | Code Rate 5/6 | -57 |

Environmental

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

Environmental Compliance

• UL2043

Power Specifications

- IEEE 802.3af PoE Power: Full 3x3:3 802.11ac MU-MIMO performance and BLE. No USB port, no 2nd Ethernet port. • IEEE 802.3at PoE Power: full set of features (all of the above
- plus USB port and 2nd Ethernet port).

Power Options

Power Draw: Typical 11.22W, Max 15.74W

Certifications

- WPA/WPA2
- Voice-Enterprise

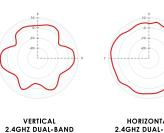
Note: Power shown is per transmit chain and is the maximum power that the radio is capable of. Power limits will be limited by local radio regulations.

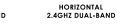
WARRANTY & SUPPORT

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.

RADIATION PATTERNS







VERTICAL 5GHZ DUAL-BAND

HORIZONTAL 5GHZ DUAL-BAND



