

# Ubiquiti Ubiquiti UAP-AC-HD - 802.11ac Wave 2 Enterprise Wi-Fi Access Point

**UB-UAP-AC-HD**  
**EAN 0810354026126**



Scalable Enterprise Wi-Fi Management: UniFi® is the revolutionary Wi-Fi system that combines enterprise performance, unlimited scalability, and a central management controller. The UniFi AC HD AP has a refined industrial design and can be easily installed using the included mounting hardware. Easily accessible through any standard web browser, the UniFi Controller software is a powerful software engine ideal for high-density client deployments requiring low latency and high uptime performance. Use the UniFi Controller software to quickly configure and administer an enterprise Wi-Fi network – no special training required. RF map and performance features, real-time status, automatic UAP device detection, and advanced security options are all seamlessly integrated. Technology: The initial 802.11ac Wave 1 SU-MIMO (Single-User, Multiple Input, Multiple Output) technology allows an earlier-generation AP to communicate with only one client at a time. The 802.11ac Wave 2 MU-MIMO (Multi-User, Multiple Input, Multiple Output) technology allows a Wave 2 AP to communicate with multiple clients at the same time – significantly increasing multi-user throughput and overall user experience. Assuming the same conditions, a Wave 2 AP provides up to 75% improvement\* overall over a Wave 1 AP. This improvement increases wireless performance and/or serves more clients at the same performance level. Aggregate Multi-User TCP Throughput: 4x4 Spatial Streams: At any single time, a Wave 2 AP can communicate with the following MU-MIMO clients: Four 1x1 clients Two 2x2 clients One 2x2 client and two 1x1 clients One 3x3 client and one 1x1 client A 4x4 Wave 2 AP delivers up to 33% greater performance\* than a Wave 1 AP that is 3x3 in both radio bands. Real-World Performance: The UniFi AC HD AP is the first UniFi 802.11ac Wave 2 AP. Combining the performance increases from MU-MIMO technology and the use of 4x4 spatial streams, the UniFi AC HD AP delivers up to 225% greater performance\* than a typical Wave 1 AP. Client Compatibility: For optimal performance, use MU-MIMO clients. SU-MIMO clients will also benefit and gain up to 10-20% greater performance when used with the UniFi AC HD AP. \* Actual performance values may vary depending on environmental and installation conditions. Hardware Overview: Deploy the UniFi AC HD AP in high-density environments requiring maximum wireless performance. The UniFi AC HD AP features simultaneous, dual-band, 4x4 MU-MIMO technology and convenient 802.3at PoE+ compatibility. Available in single- and five-packst. Easy Mounting: Its sleek design seamlessly integrates into any environment (all accessories included) and is compatible with existing UAP-AC-PRO mounts. LED: Unique LED provisioning ring provides administrator location tracking and alerts for each device. Dual Gigabit Ethernet: The UniFi AC HD AP supports Ethernet aggregation of its Ethernet ports. Superior Processing Power:

The UniFi AC HD AP is capable of complex operations (guest control, filtering, and other resource-intensive tasks) that may slow down a lesser-equipped AP. Power over Ethernet (PoE): Includes PoE functionality. Each single-pack includes a PoE adapter. PoE Standard: The UniFi AC HD AP is compatible with an 802.3at PoE+ compliant switch. We recommend powering your UniFi devices with a UniFi PoE Switch (sold separately). UniFi PoE Switch: Available in 8, 16, 24, and 48-port versions with multiple power output options, the UniFi PoE Switch conveniently offers auto-sensing IEEE 802.3af PoE/802.3at PoE+ and configurable 24V passive PoE functionality. Each single-pack includes a PoE adapter. PoE Standard: The UniFi AC HD AP is compatible with an 802.3at PoE+ compliant switch. We recommend powering your UniFi devices with a UniFi PoE Switch (sold separately). UniFi PoE Switch: Available in 8, 16, 24, and 48-port versions with multiple power output options, the UniFi PoE Switch conveniently offers auto-sensing IEEE 802.3af PoE/802.3at PoE+ and configurable 24V passive PoE

- Dimensions: 220 x 220 x 48.1 mm (8.66 x 8.66 x 1.89")
- Weight: 700 g (1.54 lb)
- With mounting kits: 830 g (1.83 lb)
- Networking Interfaces: (2) 10/100/1000 Ethernet ports (can be aggregated)
- Port: (1) USB 3C port
- Buttons: Reset
- Power Method: Passive Power over Ethernet (48 V), 802.3at supported (supported voltage range: 44 to 57 V DC)
- Power Supply: 48 V, 0.5 A PoE Gigabit adapter\*
- Power Save: Supported
- Maximum power consumption: 17 W
- TX Power:
- 2.4 GHz: 6-25 dBm
- 5 GHz: 6-25 dBm
- Antennas:
- 2.4 GHz: (2) antennas, 3 dBi each
- 5 GHz: (2) antennas, 4 dBi each
- Wi-Fi standards: 802.11 a/b/g/n/ac/ac-wave2
- Wireless security:
- WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
- 802.11w/PMF
- BSSID: Up to four per radio
- Mounting: Wall/ceiling (kits included)
- Operating temperature: -10°C to 70°C (14°F to 158°F)
- Operating humidity: 5 to 95% non-condensing
- Certifications: CE, FCC, IC

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| Logistics                    |                 |                |               |               |                |                 |
|------------------------------|-----------------|----------------|---------------|---------------|----------------|-----------------|
|                              | Number<br>(pcs) | Weight<br>(kg) | Depth<br>(cm) | Width<br>(cm) | Height<br>(cm) | cm <sup>3</sup> |
| Packaging Unit Carton        | 1               | 0.70           | 0.00          | 0.00          | 0.00           | 0.00            |
| Packaging Unit Inside        | 1               | 0.70           | 0.00          | 0.00          | 0.00           | 0.00            |
| Packaging Unit Single        | 1               | 0.70           | 0.00          | 0.00          | 0.00           | 0.00            |
| Net single without Packaging | 0               | 0.00           | 0.00          | 0.00          | 0.00           | 0.00            |

**EU responsible person**

EU based economic operator ensuring the product complies with the required regulations.

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