

Príloha č. 3 Výzvy na predkladanie ponúk - Cenová špecifikácia predmetu zákazky

Príloha č. 1 ZMLUVI O DODANÍ TOVAROV

Názov zákazky: „Wifi pre Teba dodávka bezdrôtových prístupových bodov na verejných priestranstvách v rámci obce Fulianka“

Položka	Merná jednotka	Počet jednotiek	Jednotková cena (v EUR bez DPH)	Vysúťážená suma celkom (v EUR s DPH)
Prístupový bod (AP) č. 1 - EXTERNÝ: ZASTÁVKA SAD	(nevypĺňa sa)			1500
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	555	666
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 2 - EXTERNÝ: KOLIBA AREÁL	(nevypĺňa sa)			1314
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	400	480
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 3 - EXTERNÝ: POŽIARNA ZBROJNICA	(nevypĺňa sa)			1314
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	400	480
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 4 - EXTERNÝ: CINTORÍN	(nevypĺňa sa)			1500
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	555	666
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 5 - EXTERNÝ: PRI KOSTOLE	(nevypĺňa sa)			1314
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	400	480

Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 6 - INTERNÝ: OBEČNÝ ÚRAD (vnútorný)	(nevypĺňa sa)			972
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-LR, UniFi AP-AC Long Range, 2.4GHz/5GHz, 802.11 a/b/g/n/ac, 1xGbE, Passive PoE4V/802.3af PoE,	ks	1	445	534
montáž, vrátane montážneho vybavenia	súbor	1	275	330
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 7 - EXTERNÝ: OBEČNÝ ÚRAD (vonkajší)	(nevypĺňa sa)			1314
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	400	480
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 8 - INTERNÝ: ZÁKLADNÁ ŠKOLA (vnútorný)	(nevypĺňa sa)			978
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-LR, UniFi AP-AC Long Range, 2.4GHz/5GHz, 802.11 a/b/g/n/ac, 1xGbE, Passive PoE4V/802.3af PoE,	ks	1	445	534
montáž, vrátane montážneho vybavenia	súbor	1	280	336
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 9 - EXTERNÝ: ZÁKLADNÁ ŠKOLA (vonkajší)	(nevypĺňa sa)			1314
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	400	480
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Prístupový bod (AP) č. 10 - EXTERNÝ: „PRED KAPLIČKOU“	(nevypĺňa sa)			1500
rozpísať všetky nákladové položky daného AP:	(nevypĺňa sa)			
Ubiquiti UAP-AC-M, UniFi AP AC-Mesh, 802.11AC Indoor/Outdoor Access Point, 24V/802.3af PoE,	ks	1	605	726
montáž, vrátane montážneho vybavenia	súbor	1	555	666
Centrálny manažment - Ubiquiti UC-CK, UniFi Controller, Cloud Key a Ubiquiti USG, UniFi Security Gateway, EU - príslušná časť ceny (1/10) - dodávka vrátane konfigurácie	súbor	1	90	108
Celkom				13020

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Hlavná 818, 086 4
ICO: 47 146 192
IC DPH: 13020
765656

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Príloha č. 4 Výzvy na predkladanie ponúk
(Príloha č. 2 Kúpnej zmluvy)

Rozsah predmetu zákazky

Predmetom zákazky je vybudovanie bezplatného WiFi pripojenia pre občanov aj návštevníkov obce prostredníctvom bezdrôtových prístupových bodov na verejných priestranstvách. Pokrytie verejných priestranstiev WiFi pripojením bude zabezpečené dodaním technických prostriedkov a programových prostriedkov (tovarov) vrátane ich inštalácie – 8 externých prístupových bodov a 2 interných prístupových bodov zahrňujúcich potrebné nevyhnutné príslušenstvo s inštaláciou a montážou WiFi siete. Vybudovaná WiFi sieť bude používať označenie siete (SSID) WiFi pre Teba a poskytovať internetovú konektivitu s minimálnou rýchlosťou sťahovania 30 Mbps bezplatne všetkým občanom a návštevníkom obce. Prístupové body budú umiestnené na nižšie uvedených verejných priestranstvách:

1. **ZASTÁVKA SAD** - 1 ks vonkajší prístupový bod – pokrytie verejného priestranstva v okolí autobusovej zastávky. Vonkajší prístupový bod navrhujeme umiestniť na jestvujúci stĺp vo vlastníctve obce, aby pokrýval priestor autobusovej zastávky a obyvatelia a návštevníci mali prístup k bezplatnému internetu. Napájanie zo stĺpa. Obecný stĺp pri zastávke umiestnený na parcele EKN390/7, k.ú. Fulianka, LV 596, v bezpodielovom spoluvlastníctve – Peter Leško a Eva Lešková, rod. Kekľarová, s ktorými má obec uzatvorenú nájomnú zmluvu na predmetný pozemok s vyjadrením súhlasu s umiestnením prístupového bodu.
2. **KOLIBA AREÁL** - 1 ks vonkajší prístupový bod – pokrytie areálu novovybudovaného altánku v obci určeného na voľnočasové aktivity. Vonkajší hotspot navrhujeme umiestniť na vybudovanom altánku tak, aby hotspot pokrýval čo najväčší verejný priestor. Napájanie zabezpečené z vybudovaného altánku (Koliby). Novostavba vo vlastníctve obce Fulianka umiestnená na parcele EKN391/1, k.ú. Fulianka, LV 340, v správe Urbárske spoločenstvo Fulianka, so sídlom Fulianka 81, s ktorým má obec uzatvorenú nájomnú zmluvu na predmetný pozemok.
3. **POŽIARNA ZBOJNICA** - 1 ks vonkajší prístupový – pokrytie areálu pred požiarou zbrojnicou nachádzajúceho sa v centre obce. Vonkajší prístupový bod, umiestnime na budovu Požiarnej zbrojnice tak, aby bolo pokryté signálom čo najväčšie priestranstvo. Napájanie z budovy Požiarnej zbrojnice. Adresa – Fulianka č. 90. Budova vo vlastníctve obce Fulianka – budova evidovaná na LV 559, k.ú. Fulianka. Budova je umiestnená na parcele EKN391/1, k.ú. Fulianka, LV 340, v správe Urbárske spoločenstvo Fulianka, so sídlom Fulianka 81, s ktorým má obec uzatvorenú nájomnú zmluvu na predmetný pozemok.
4. **CINTORÍN** - 1 ks vonkajší prístupový bod – pokrytie verejného priestranstva obecného cintorína. Vonkajší prístupový bod navrhujeme umiestniť na jestvujúci stĺp vo vlastníctve obce, aby pokrýval čo najväčší priestor miestneho cintorína. Napájanie zo stĺpa. Obecný stĺp umiestnený na parcele CKN 140, k.ú. Fulianka, LV 559, vo vlastníctve obce Fulianka.
5. **PRI KOSTOLE** - 1 ks vonkajší prístupový bod – pre pokrytie verejného priestranstva pri kostole. Vonkajší prístupový bod navrhujeme umiestniť na jestvujúci stĺp vo vlastníctve obce, aby pokrýval čo najväčší priestor okolo kostola, najmä pred kostolom. Napájanie zo stĺpa. Obecný stĺp umiestnený na parcele EKN 642/500, k.ú. Fulianka, LV 340, v správe Urbárske spoločenstvo Fulianka, so sídlom Fulianka 81, s ktorým má obec uzatvorenú nájomnú zmluvu na predmetný pozemok.
6. **OBCENÝ ÚRAD (vnútorný)** - 1 ks vnútorný prístupový bod – pre pokrytie verejne prístupných vnútorných priestorov Obecného úradu. Prístupový bod navrhujeme umiestniť v budove Obecného úradu – na stene priestorov pre verejnosť. Napájanie z budovy OcÚ. Jedná sa o budovu so súpisným číslom 3, vo vlastníctve obce Fulianka, LV 559, na parcele CKN 4, k.ú. Fulianka, vo vlastníctve obce Fulianka, LV 559.
7. **OBCENÝ ÚRAD (vonkajší)** - 1 ks vonkajší prístupový bod – pokrytie verejného priestranstva pred Obecným úradom. Vonkajší prístupový bod navrhujeme umiestniť na budovu obecného úradu tak, aby pokrýval čo najväčší priestor v okolí obecného úradu. Napájanie z budovy OcÚ. Jedná sa o budovu so súpisným číslom 3, vo vlastníctve obce Fulianka, LV 559, na parcele CKN 4, k.ú. Fulianka, vo vlastníctve obce Fulianka, LV 559.
8. **ZÁKLADNÁ ŠKOLA (vnútorný)** - 1 ks vnútorný prístupový bod – pokrytie priestorov ZŠ, kde sú usporadúvané verejne prístupné kultúrne, spoločenské, či športové podujatia. Vnútorný prístupový bod navrhujeme umiestniť v budove ZŠ (na stene) tak, aby pokrýval čo najväčší verejne využívaný vnútorný priestor. Napájanie z budovy ZŠ. Jedná sa o budovu so súpisným

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číslo 9, vo vlastníctve obce Fulianka, LV 639, na parcele CKN 316/1, k.ú. Fulianka, vo vlastníctve obce Fulianka, LV 639.

- 9. ZÁKLADNÁ ŠKOLA (vonkajší)** - 1 ks vonkajší prístupový bod – pokrytie verejného priestranstva pred Základnou školou. Vonkajší prístupový bod navrhujeme umiestniť na budovu ZŠ tak, aby pokrýval čo najväčší priestor v okolí ZŠ, najmä verejné priestranstvo pre ZŠ smerom k hlavnej ulici. Napájanie z budovy ZŠ. Jedná sa o budovu so súpisným číslom 9, vo vlastníctve obce Fulianka, LV 639, na parcele CKN 316/1, k.ú. Fulianka, vo vlastníctve obce Fulianka, LV 639.
- 10. „PRED KAPLIČKOU“** - 1 ks vonkajší prístupový bod – pokrytie verejného priestranstva a cesty pred turistami navštevovanou kaplnkou („kapličkou“). v okolí autobusovej zastávky. Vonkajší prístupový bod navrhujeme umiestniť na jestvujúci stĺp obecného rozhlasu pri križovatke na konci obce vo vlastníctve obce. Napájanie zo stĺpa. Obecný stĺp umiestnený na parcele EKN 81, k.ú. Fulianka, vo vlastníctve obce Fulianka, LV 559.



Príloha c.3 ZMLUVY O DODANÍ TOVARU

Minimálne technické parametre v rámci "Wifi pre Teba"

Otázka č.	Znenie otázky	Odpoveď	odkaz na relevantnú časť technických listov
1.	Kompaktné dvojčiasmové WiFi zariadenia (2,4GHz - 5 GHz), ktoré sú certifikované pre európsky trh?	Áno	UniFi AC Mesh AP - Príloha 1: DOC - UniFi AC Mesh AP (str.1,3) UniFi AC LR AP - Príloha 2: DOC - UniFi AC LR AP (str.1,3)
2.	Životný cyklus použitých produktov vyšší ako 5 rokov?	Áno	UniFi AC Mesh AP, UniFi AC LR AP - Príloha 3: MTBF (str. 1)
3.	Stredná doba medzi poruchami (MTBF) minimálne 5 rokov?	Áno	
4.	Možnosť centrálného manažmentu pre riadenie, monitoring a konfiguráciu siete (single point of management)?	Áno	UniFi AC Mesh AP - Príloha 4: Datasheet - UniFi AC Mesh AP (str.3) UniFi AC LR AP - Príloha 5: Datasheet - UniFi AC LR AP (str.3)
5.	Súlad s „802.11ac Wave 1, Institute of Electrical and Electronics Engineers“ (IEEE) štandardom?	Áno	UniFi AC Mesh AP - Príloha 4: Datasheet - UniFi AC Mesh AP (str.7) UniFi AC LR AP - Príloha 5: Datasheet - UniFi AC LR AP (str.6)
6.	Podpora 802.11n IEEE štandardu?	Áno	UniFi AC Mesh AP - Príloha 4: Datasheet - UniFi AC Mesh AP (str.7) UniFi AC LR AP - Príloha 5: Datasheet - UniFi AC LR AP (str.6)
7.	Podpora 802.11r IEEE štandardu?	Áno	
8.	Podpora 802.11k IEEE štandardu?	Áno	
9.	Podpora 802.11v IEEE štandardu?	Áno	
10.	Schopnosť AP obsluhovať naraz aspoň 50 rôznych užívateľov bez zníženia kvality služby?	Áno	UniFi AC Mesh AP - Príloha 4: Datasheet - UniFi AC Mesh AP (str.7) UniFi AC LR AP - Príloha 5: Datasheet - UniFi AC LR AP (str.6)
11.	Minimálne 2x2 MIMO (multiple-input-multiple-output)?	Áno	UniFi AC Mesh AP - Príloha 4: Datasheet - UniFi AC Mesh AP (str.4) UniFi AC LR AP - Príloha 5: Datasheet - UniFi AC LR AP (str.4)
12.	Súlad s Hotspot 2.0 (Passpoint Wi-Fi Alliance certification program)?	Áno	UniFi AC Mesh AP - Príloha 6: Wi-Fi Certified - UniFi AC Mesh AP (str.1) UniFi AC LR AP - Príloha 7: Wi-Fi Certified - UniFi AC LR AP (str.1)
13.	Súčasťou dodávky bude: projektová dokumentácia ktorá bude obsahovať sieťové zapojenie aktívnych prvkov siete s IP adresným plánom, Simuláciu pokrytia priestoru, Meranie skutočného pokrytia, technické listy aktívnych prvkov, funkčný popis a vyobrazenie obsahu hotspot portálu s umiestneným logom?		



Príloha 1: DOC - Unifi AC Mesh AP

DECLARATION OF CONFORMITY



Ubiquiti Inc.
685 Third Avenue
New York, NY 10017
USA

Hereby declares under our sole responsibility that the **UniFi AC Mesh AP**, model **UAP-AC-M**, to which this declaration relates, is in conformance with the provisions of Directives

- Radio - 2014/53/EU Radio Equipment Directive (RED)

This device shows compliance utilizing the following antennas

- o Omni (default/included) - 2.4 GHz: 3 dBi / 5 GHz: 4 dBi
- o Panel - 2.4 GHz: 10 dBi / 5 GHz: 15 dBi

- EMC - 2014/30/EU Electromagnetic Compatibility Directive (EMCD)

- Safety - 2014/35/EU Low Voltage Directive (LVD)

- Hazardous Materials - 2011/65/EU Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with amendment (EU) 2015/863; 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

For additional REACH details, please refer to ui.com/compliance

Product Standards to which Conformity of the Council Directives is declared:

Standards	Description
EN 55032 2015	ElectroMagnetic Compatibility of Multimedia Equipment – Emission Requirements
EN 55024 2010+A1:2015	Information Technology Equipment – Immunity Characteristics
EN 301 489-1 V1.9.2 (2011-09)	ElectroMagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 1: Common Technical Requirements; Harmonised Standard Covering the Essential Requirements of Article 3.1(b) of Directive 2014/53/EU and the Essential Requirements of Article 6 of Directive 2014/30/EU
EN 301 489-17 V2.2.1 (2012-09)	ElectroMagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 17: Specific Conditions for Broadband Data Transmission Systems; Harmonised Stan- dard Covering the Essential Requirements of Article 3.1(b) of Directive 2014/53/EU
EN 300 328 V2.1.1 (2016-11)	1. Wideband Transmission Systems; Data Transmission Equipment Operating in the 2,4 GHz ISM Band and Using Wide Band Modulation Techniques; Harmonised Standard Covering the Essential Requirements of Article 3.2 of Directive 2014/53/EU
EN 301 893 V2.1.1 (2017-05)	1. 5 GHz RLAN; Harmonised Standard Covering the Essential Requirements of Article 3.2 of Directive 2014/53/EU
EN 62311 2008	Assessment of Electronic and Electrical Equipment Related to Human Exposure Restrictions for Electromagnetic Fields (0 Hz – 300 GHz)
EN 60950-1 2006 +A11:2009+A1:2010 +A12:2011+A2:2013	Information Technology Equipment – Safety – Part 1: General Requirements EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

CE Marking



Mark Feil
Compliance Manager

New York
October 27, 2020

DECLARATION OF CONFORMITY



UAP-AC-M

Български [Bulgarian]

С настоящото Ubiquiti декларира, че това устройство UAP-AC-M е в съответствие със съществените изисквания и други приложими разпоредби на Директиви 2014/53/EC, 2014/30/EC, 2014/35/EC.

Hrvatski [Croatian]

Ubiquiti ovim putem izjavljuje da je ovaj uređaj UAP-AC-M sukladan osnovnim zahtjevima i ostalim bitnim odredbama Direktiva 2014/53/EU, 2014/30/EU, 2014/35/EU.

Čeština [Czech]

Ubiquiti tímto prohlašuje, že toto UAP-AC-M zařízení, je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnic 2014/53/EU, 2014/30/EU, 2014/35/EU.

Dansk [Danish]

Hermed, Ubiquiti, erklærer at denne UAP-AC-M enhed, er i overensstemmelse is met de væsentlige krav og øvrige relevante krav i direktiver 2014/53/EU, 2014/30/EU, 2014/35/EU.

Nederlands [Dutch]

Hierbij verklaart Ubiquiti, dat deze UAP-AC-M apparaat, in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijnen 2014/53/EU, 2014/30/EU, 2014/35/EU.

English

Hereby, Ubiquiti, declares that this UAP-AC-M device, is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU, 2014/30/EU, 2014/35/EU.

Eesti keel [Estonian]

Käesolevaga Ubiquiti kinnitab, et antud UAP-AC-M seade, on vastavus olulistele nõuetele ja teistele asjakohastele sätetele direktiivide 2014/53/EL, 2014/30/EL, 2014/35/EL.

Suomi [Finnish]

Täten Ubiquiti vakuuttaa, että tämä UAP-AC-M laite, on yhdenmukainen olennaisten vaatimusten ja muiden sitä koskevien direktiivien 2014/53/EU, 2014/30/EU, 2014/35/EU.

Français [French]

Par la présente Ubiquiti déclare que l'appareil UAP-AC-M, est conforme aux exigences essentielles et aux autres dispositions pertinentes des directives 2014/53/UE, 2014/30/UE, 2014/35/UE.

Deutsch [German]

Hiermit erklärt Ubiquiti, dass sich dieses UAP-AC-M Gerät, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinien 2014/53/EU, 2014/30/EU, 2014/35/EU befindet.

Ελληνικά [Greek]

Δια του παρόντος, Ubiquiti, δηλώνει ότι αυτή η συσκευή UAP-AC-M, είναι σε συμμόρφωση με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις των οδηγιών 2014/53/ΕΕ, 2014/30/ΕΕ, 2014/35/ΕΕ.

Magyar [Hungarian]

Ezennel Ubiquiti kijelenti, hogy ez a UAP-AC-M készülék megfelel az alapvető követelményeknek és más vonatkozó 2014/53/EU, 2014/30/EU, 2014/35/EU irányelvek rendelkezéseit.

Íslenska [Icelandic]

Hér, Ubiquiti, því yfir að þetta UAP-AC-M tæki er í samræmi við grunnkröfur og önnur viðeigandi ákvæði tilskipa-na 2014/53/ESB, 2014/30/ESB, 2014/35/ESB.

Italiano [Italian]

Con la presente, Ubiquiti, dichiara che questo dispositivo UAP-AC-M, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti delle direttive 2014/53/UE, 2014/30/UE, 2014/35/UE.

Latviešu valoda [Latvian]

Ar šo, Ubiquiti, deklarē, ka UAP-AC-M ierīce, ir saskaņā ar būtiskajām prasībām un citiem attiecīgiem noteikumiem Direktīvās 2014/53/ES, 2014/30/ES, 2014/35/ES.

Lietuvių kalba [Lithuanian]

Ubiquiti deklaruoja, kad šis UAP-AC-M įrenginys atitinka esminius reikalavimus ir kitas 2014/53/ES, 2014/30/ES, 2014/35/ES Direktyvų nuostatas.

Malti [Maltese]

Hawnhekk, Ubiquiti, tiddikjara li dan il-mezz UAP-AC-M huwa konformi mar-rekwiżiti essenzjali u dispożizzjoniji-et rilevanti oħrajn ta 'Direttivi 2014/53/UE, 2014/30/UE, 2014/35/UE.

Norsk [Norwegian]

Herved Ubiquiti, erklærer at denne UAP-AC-M enheten, er i samsvar med de grunnleggende kravene og andre relevante bestemmelser i direktivene 2014/53/EU, 2014/30/EU, 2014/35/EU.

Polski [Polish]

Niniejszym, Ubiquiti, oświadcza, że urządzenie UAP-AC-M, jest zgodny z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektyw 2014/53/UE, 2014/30/UE, 2014/35/UE.

Português [Portuguese]

Ubiquiti declara que este dispositivo UAP-AC-M, está conforme com os requisitos essenciais e outras disposições das Directivas 2014/53/UE, 2014/30/UE, 2014/35/UE.

DECLARATION OF CONFORMITY



Română [Romanian]

Prin prezenta, Ubiquiti declară că acest dispozitiv UAP-AC-M este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivelor 2014/53/UE, 2014/30/UE, 2014/35/UE.

Slovenčina [Slovak]

1. Týmto Ubiquiti, prehlasuje, že toto UAP-AC-M zariadenie, je v súlade so základnými požiadavkami a ďalšími relevantnými ustanoveniami smernice 2014/53/EÚ, 2014/30/EÚ, 2014/35/EÚ.

Slovenščina [Slovenian]

Družba Ubiquiti izjavlja, da je naprava UAP-AC-M v skladu z obveznimi zahtevami in drugimi ustreznimi določbami direktiv 2014/53/EU, 2014/30/EU in 2014/35/EU.

Español [Spanish]

Por medio de la presente Ubiquiti declara que este dispositivo UAP-AC-M, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de las Directivas 2014/53/UE, 2014/30/UE, 2014/35/UE.

Svenska [Swedish]

Härmed Ubiquiti, intygar att denna UAP-AC-M enhet är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiven 2014/53/EU, 2014/30/EU, 2014/35/EU.

Accessories:

<https://www.ui.com/products/#default>

<https://www.ui.com/products/#accessories>

Príloha 2: DOC - UniFi AC LR AP

DECLARATION OF CONFORMITY



Ubiquiti Inc.
685 Third Avenue
New York, NY 10017
USA

Hereby declares under our sole responsibility that the **UniFi AC LR AP**, model **UAP-AC-LR**, to which this declaration relates, is in conformance with the provisions of Directives

- Radio - 2014/53/EU Radio Equipment Directive (RED)
- EMC - 2014/30/EU Electromagnetic Compatibility Directive (EMCD)
- Safety - 2014/35/EU Low Voltage Directive (LVD)
- Hazardous Materials - 2011/65/EU Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with amendment (EU) 2015/863; 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

For additional REACH details, please refer to ui.com/compliance

Product Standards to which Conformity of the Council Directives is declared:

Standards	Description
EN 55032 2015+AC:2016	ElectroMagnetic Compatibility of Multimedia Equipment – Emission Requirements
EN 55024 2010	Information Technology Equipment – Immunity Characteristics
EN 301 489-1 V2.1.1 (2017-02)	ElectroMagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 1: Common Technical Requirements; Harmonised Standard Covering the Essential Requirements of Article 3.1(b) of Directive 2014/53/EU and the Essential Requirements of Article 6 of Directive 2014/30/EU
EN 301 489-17 V3.1.1 (2017-02)	ElectroMagnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 17: Specific Conditions for Broadband Data Transmission Systems; Harmonised Standard Covering the Essential Requirements of Article 3.1(b) of Directive 2014/53/EU
EN 300 328 V2.1.1 (2016-11)	1. Wideband Transmission Systems; Data Transmission Equipment Operating in the 2,4 GHz ISM Band and Using Wide Band Modulation Techniques; Harmonised Standard Covering the Essential Requirements of Article 3.2 of Directive 2014/53/EU
EN 301 893 V2.1.1 (2017-05)	1. 5 GHz RLAN; Harmonised Standard Covering the Essential Requirements of Article 3.2 of Directive 2014/53/EU
EN 62311 2008	Assessment of Electronic and Electrical Equipment Related to Human Exposure Restrictions for Electromagnetic Fields (0 Hz – 300 GHz)
EN 60950-1 2006 +A11:2009+A1:2010 +A12:2011+A2:2013	Information Technology Equipment – Safety – Part 1: General Requirements EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

CE Marking



Mark Feil
Compliance Manager

New York
October 27, 2020

DECLARATION OF CONFORMITY



UAP-AC-LR

Български [Bulgarian]

С настоящото Ubiquiti декларира, че това устройство UAP-AC-LR е в съответствие със съществените изисквания и други приложими разпоредби на Директиви 2014/53/EC, 2014/30/EC, 2014/35/EC.

Hrvatski [Croatian]

Ubiquiti ovim putem izjavljuje da je ovaj uređaj UAP-AC-LR sukladan osnovnim zahtjevima i ostalim bitnim odredbama Direktiva 2014/53/EU, 2014/30/EU, 2014/35/EU.

Čeština [Czech]

Ubiquiti tímto prohlašuje, že toto UAP-AC-LR zařízení, je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnic 2014/53/EU, 2014/30/EU, 2014/35/EU.

Dansk [Danish]

Hermed, Ubiquiti, erklærer at denne UAP-AC-LR enhed, er i overensstemmelse med de væsentlige krav og øvrige relevante krav i direktiver 2014/53/EU, 2014/30/EU, 2014/35/EU.

Nederlands [Dutch]

Hierbij verklaart Ubiquiti, dat deze UAP-AC-LR apparaat, in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijnen 2014/53/EU, 2014/30/EU, 2014/35/EU.

English

Hereby, Ubiquiti, declares that this UAP-AC-LR device, is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU, 2014/30/EU, 2014/35/EU.

Eesti keel [Estonian]

Käesolevaga Ubiquiti kinnitab, et antud UAP-AC-LR seade, on vastavus oluliste nõuetele ja teistele asjakohastele sätetele direktiivide 2014/53/EL, 2014/30/EL, 2014/35/EL.

Suomi [Finnish]

Täten Ubiquiti vakuuttaa, että tämä UAP-AC-LR laite, on yhdenmukainen olennaisten vaatimusten ja muiden sitä koskevien direktiivien 2014/53/EU, 2014/30/EU, 2014/35/EU.

Français [French]

Par la présente Ubiquiti déclare que l'appareil UAP-AC-LR, est conforme aux exigences essentielles et aux autres dispositions pertinentes des directives 2014/53/UE, 2014/30/UE, 2014/35/UE.

Deutsch [German]

Hiermit erklärt Ubiquiti, dass sich dieses UAP-AC-LR Gerät, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinien 2014/53/EU, 2014/30/EU, 2014/35/EU befindet.

Ελληνικά [Greek]

Δια του παρόντος, Ubiquiti, δηλώνει ότι αυτή η συσκευή UAP-AC-LR, είναι σε συμμόρφωση με τις βασικές απαιτήσεις και τις λοιπές σχετικές διατάξεις των οδηγιών 2014/53/ΕΕ, 2014/30/ΕΕ, 2014/35/ΕΕ.

Magyar [Hungarian]

Ezennel Ubiquiti kijelenti, hogy ez a UAP-AC-LR készülék megfelel az alapvető követelményeknek és más vonatkozó 2014/53/EU, 2014/30/EU, 2014/35/EU irányelvek rendelkezéseit.

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Italiano [Italian]

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Latviešu valoda [Latvian]

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Polski [Polish]

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Português [Portuguese]

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DECLARATION OF CONFORMITY



Română [Romanian]

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Slovenčina [Slovak]

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Español [Spanish]

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Svenska [Swedish]

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Accessories:

<https://www.ui.com/products/#default>

<https://www.ui.com/products/#accessories>



Príloha 3 - MTBF

Date: January 7, 2020

1. MTBF Reliability Prediction

MTBF (mean time between failures) is calculated for the following Ubiquiti products. MTBF predictions are estimates of the service life of the products and are subject to the limitations of the testing methodology.

1.1 Products

This information applies to the following Ubiquiti products:

Model Name	Description
UAP-AC-PRO	UniFi Access Point AC Pro
UAP-AC-LR	UniFi Access Point AC LR
UAP-AC-M	UniFi Access Point AC Mesh
UAP-AC-M-PRO	UniFi Access Point AC Mesh Pro

1.2 Calculations

Model Name	Temperature (°C)	MTBF (Hours)
UAP-AC-PRO	25°C	2,137,156
	60°C	1,124,184

Model Name	Temperature (°C)	MTBF (Hours)
UAP-AC-LR	25°C	3,421,115
	60°C	1,432,087

2., 3.

Model Name	Temperature (°C)	MTBF (Hours)
UAP-AC-M	25°C	3,436,945
	60°C	1,420,565

Model Name	Temperature (°C)	MTBF (Hours)
UAP-AC-M-PRO	25°C	2,257,109
	60°C	1,183,328



2. Support

The products listed above will receive Ubiquiti standard support from the date of manufacturing and all sales of the products are subject to a limited warranty available at <https://www.ui.com/support/warranty/> and strict adherence to the Compliance Policy attached hereto as Exhibit A.

Príloha 4: Datasheet - UniFi AC Mesh AP



Scalable Enterprise Wi-Fi Management

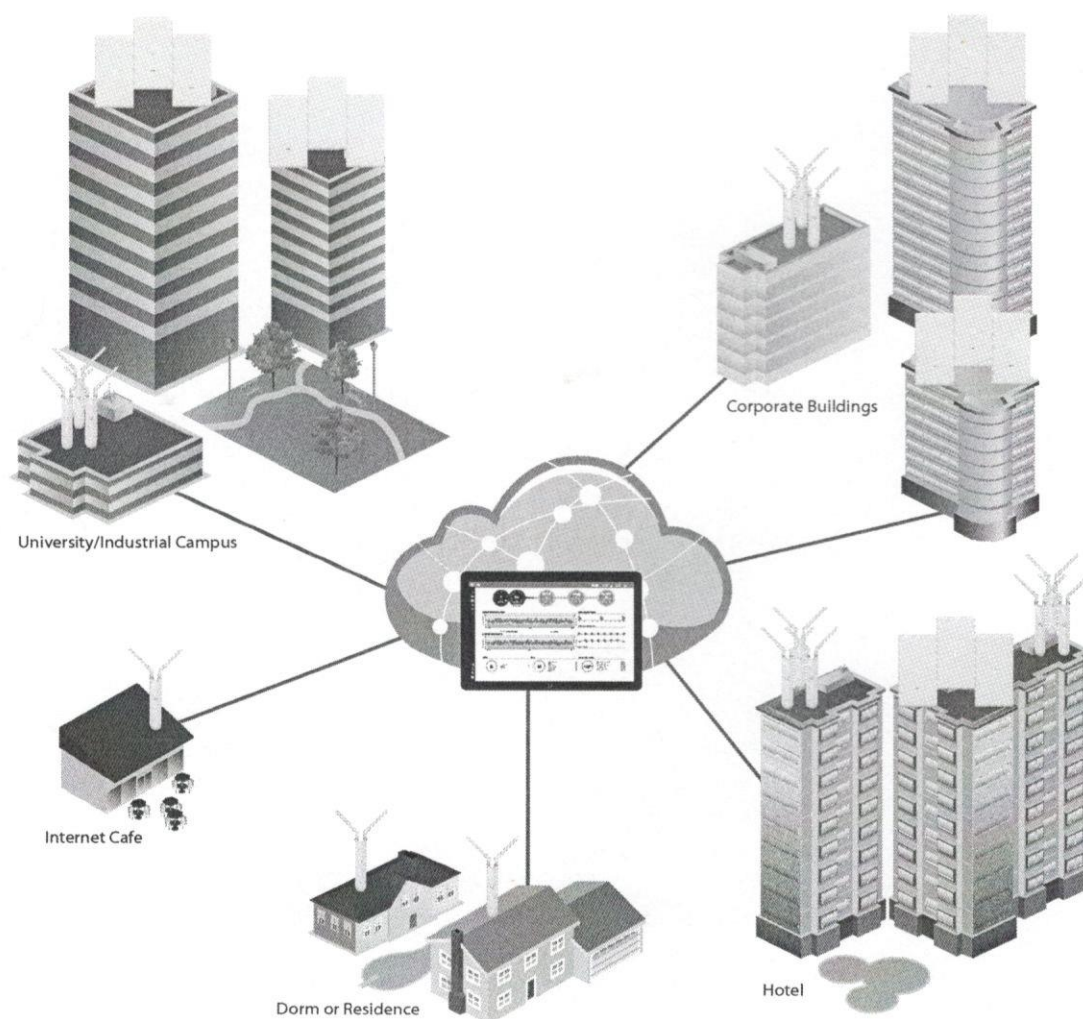
UniFi[®] is the revolutionary Wi-Fi system that combines enterprise performance, unlimited scalability, and a central management controller. The UniFi AC Mesh APs have a refined industrial design and can be easily installed using the included mounting hardware.

Easily accessible through any standard web browser and the UniFi mobile app (iOS or Android), 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.

Extend Your Coverage

With the UniFi Controller software running in a NOC or in the cloud, administrators can manage multiple sites: multiple distributed deployments and multi-tenancy for managed service providers. Below are some deployment examples.



Features

Save Money and Save Time UniFi comes bundled with a non-dedicated software controller that can be deployed on an on-site PC, Mac, or Linux machine; in a private cloud; or using a public cloud service. You also have the option of using the UniFi Cloud Key with built-in software.

Powerful Hardware The UniFi AC Mesh APs feature Wi-Fi 802.11AC with Plug & Play Mesh technology.

Intuitive UniFi Controller Software Configure and manage your APs with the easy-to-learn user interface.

Expandable Unlimited scalability: build wireless networks as big or small as needed. Start with one and expand to thousands while maintaining a single unified management system.

UniFi Controller

Packed with Features

4. Use the UniFi Controller to provision thousands of UniFi APs, map out networks, quickly manage system traffic, and provision additional UniFi APs.

Breakthrough RF Map

Use the RF map to monitor and analyze radio frequencies for optimal AP placement, configuration, and troubleshooting.

Powerful RF Performance Features

Advanced RF performance and configuration features include spectral analysis, airtime fairness, and band steering.

Detailed Analytics

Use the configurable reporting and analytics to manage large user populations and expedite troubleshooting.

Wireless Uplink

Wireless Uplink functionality enables wireless connectivity between APs for extended range. One wired UniFi AP uplink supports up to four wireless downlinks on a single operating band, allowing wireless adoption of devices in their default state and real-time changes to network topology.

For devices that support Plug & Play Mesh, this functionality is extended to allow multi-hop wireless uplink – so wirelessly uplinked APs can support uplink to other wirelessly uplinked APs.

Guest Portal/Hotspot Support

Easy customization options for Guest Portals include authentication, Hotspot setup, and the ability to use your own external portal server. Use UniFi's rate limiting for your Guest Portal/Hotspot package offerings. Apply different bandwidth rates (download/upload), limit total data usage, and limit duration of use.

All UniFi APs include Hotspot functionality:

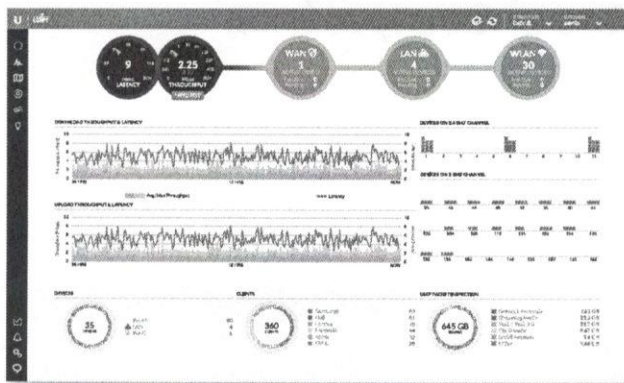
- Built-in support for billing integration using major credit cards.
- Built-in support for voucher-based authentication.
- Built-in Hotspot Manager for voucher creation, guest management, and payment refunds.
- Full customization and branding of Hotspot portal pages.

Multi-Site Management

A single cloud-based UniFi Controller can manage multiple sites: multiple, distributed deployments and multi-tenancy for managed service providers. Each site is logically separated and has its own configuration, maps, statistics, guest portal, and admin read/write and read-only accounts.

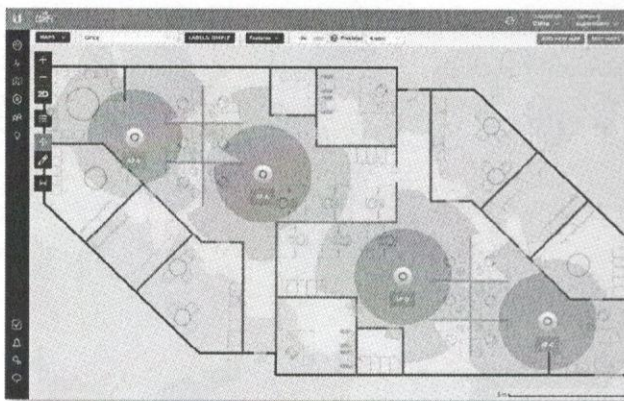
WLAN Groups

Manage flexible configurations of large deployments. Create multiple WLAN groups and assign them to an AP's radio.



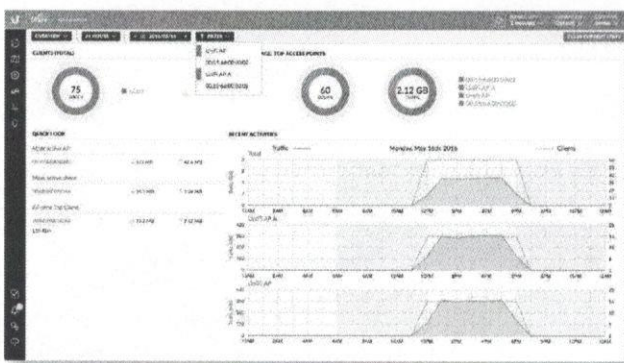
Dashboard

UniFi provides a visual representation of your network's status and delivers basic information about each network segment.



RF Map

Monitor UniFi APs and analyze the surrounding RF environment.



Statistics

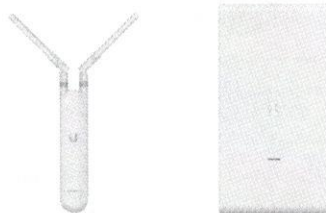
UniFi visualizes network traffic in clear and easy-to-read graphs.



UniFi Mobile App

Manage your UniFi devices from your smartphone or tablet.

Model Comparison



	UAP-AC-M	UAP-AC-M-PRO
Environment	Indoor/Outdoor	Outdoor
Simultaneous Dual-Band	✓	✓
2.4 GHz Radio Rate	300 Mbps	450 Mbps
2.4 GHz MIMO	2x2	3 x 3
11. 5 GHz Radio Rate	867 Mbps	1300 Mbps
5 GHz MIMO	2x2	3 x 3
Secondary Ethernet Port		✓
PoE Mode	24V Passive PoE 802.3af PoE: Alternative A	802.3af PoE
Wall Mount	✓	✓
Pole Mount	✓	✓
Fast Mount	✓	

Use Cases

Mesh Multi-Hop A large outdoor area, such as a park with minimal infrastructure, can take advantage of a mesh network comprised of the UniFi AC Mesh models.

Omnidirectional Coverage, Indoors or Outdoors The UAP-AC-M includes adjustable dual-band omni antennas.

You have the option to use a 5 GHz omni antenna¹ for spot-beam coverage in high-density locations with numerous APs and clients, like a conference hall or event center.

Directional Coverage, Outdoors The UAP-AC-M is versatile.

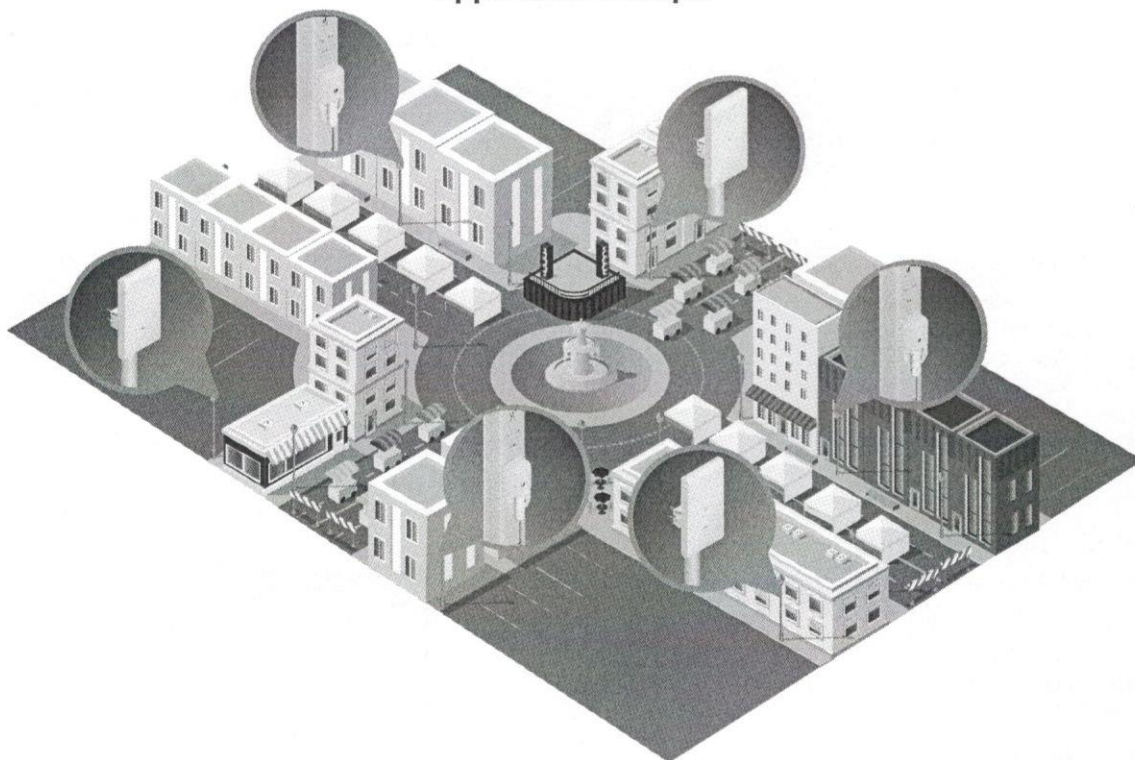
You have the option to use a 5 GHz sector antenna² (wide beam in the azimuth plane and narrow in the elevation plane) for broad outdoor coverage.

Maximum Coverage, Outdoors The UAP-AC-M-PRO is ideal for applications requiring 3x3 MIMO data rates for close-in omni coverage.

Temporary Installations Deploy the UniFi AC Mesh models for outdoor installations requiring quick setup and takedown, such as a street fair, music festival, or concert venue.

¹ Different antenna gains are allowed for each regulatory domain or country. It is the installer's responsibility to check local regulations.

Application Example



Both UniFi AC Mesh models provide wireless coverage for a street fair in a city plaza.

Hardware Overview

Model: UAP-AC-M

The UAP-AC-M provides simultaneous, dual-band, 2x2 MIMO technology and is available in single- and five-packs¹.

Compact Form Factor The UAP-AC-M discreetly integrates into any environment.

Weather-Resistant Enclosure The UAP-AC-M can be used indoors or outdoors.

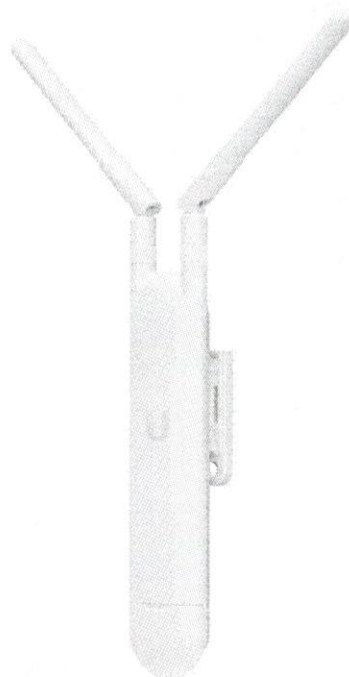
Versatile Mounting The UAP-AC-M can be mounted on a wall, pole, or fast-mount of an optional Ubiquiti® high-gain antenna². (All accessories are included.)

Multiple Power Options The UAP-AC-M is compatible with 802.3af PoE Alternative A and 24V passive PoE. You can power it with the included Gigabit PoE adapter¹ or an 802.3af Alternative A compatible switch, such as the UniFi PoE Switch or EdgePoint™ EP-R6.

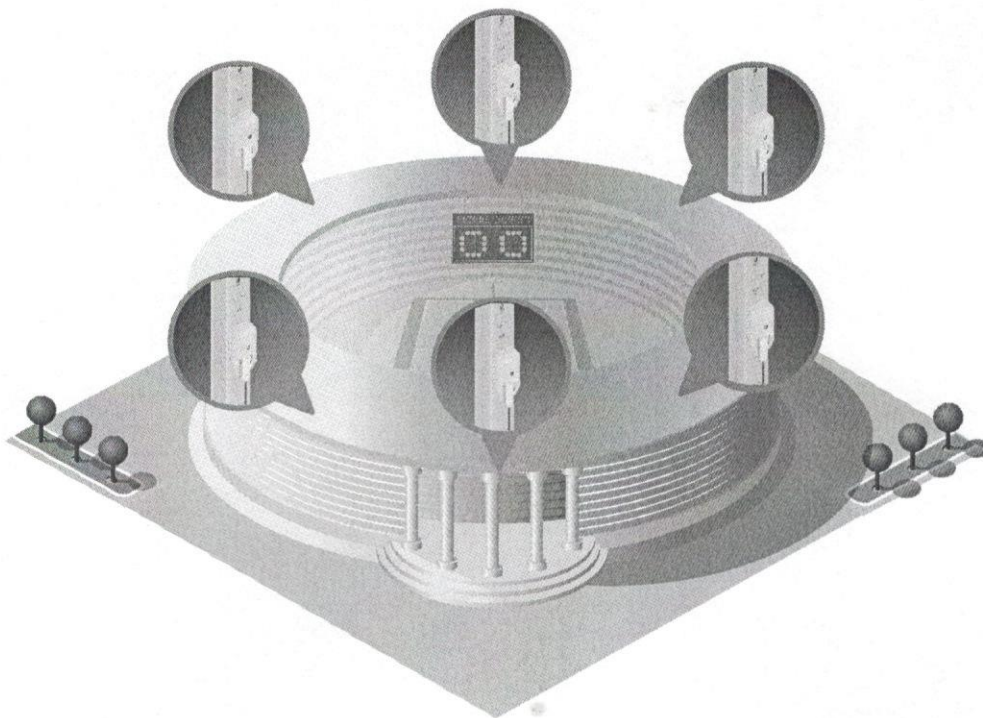
Antenna Options Use the included omni antennas, or use the included fast-mount adapter to install the AP on an optional connectorized antenna² for expanded range coverage and customized pattern shaping.

¹ Five-packs do not ship with PoE adapters; we recommend powering the UniFi APs with the UniFi PoE Switch instead.

² Different antenna gains are allowed for each regulatory domain or country. It is the installer's responsibility to check local regulations.



Application Example



The UAP-AC-M utilizes the same antenna connector technology as airMAX® antennas.²

Hardware Overview

Model: UAP-AC-M-PRO

The UAP-AC-M-PRO provides simultaneous, dual-band, 3x3 MIMO technology and is available in single- and five-packs*.

Weather-Resistant Form Factor The enclosure of the UAP-AC-M-PRO is designed to withstand the elements, making it ideal for outdoor deployment.

Powerful Coverage Built-in dual-band omnidirectional antennas deliver expanded range coverage outdoors.

Mounting Flexibility The UAP-AC-M-PRO can be mounted on a wall or pole. (All accessories are included.)

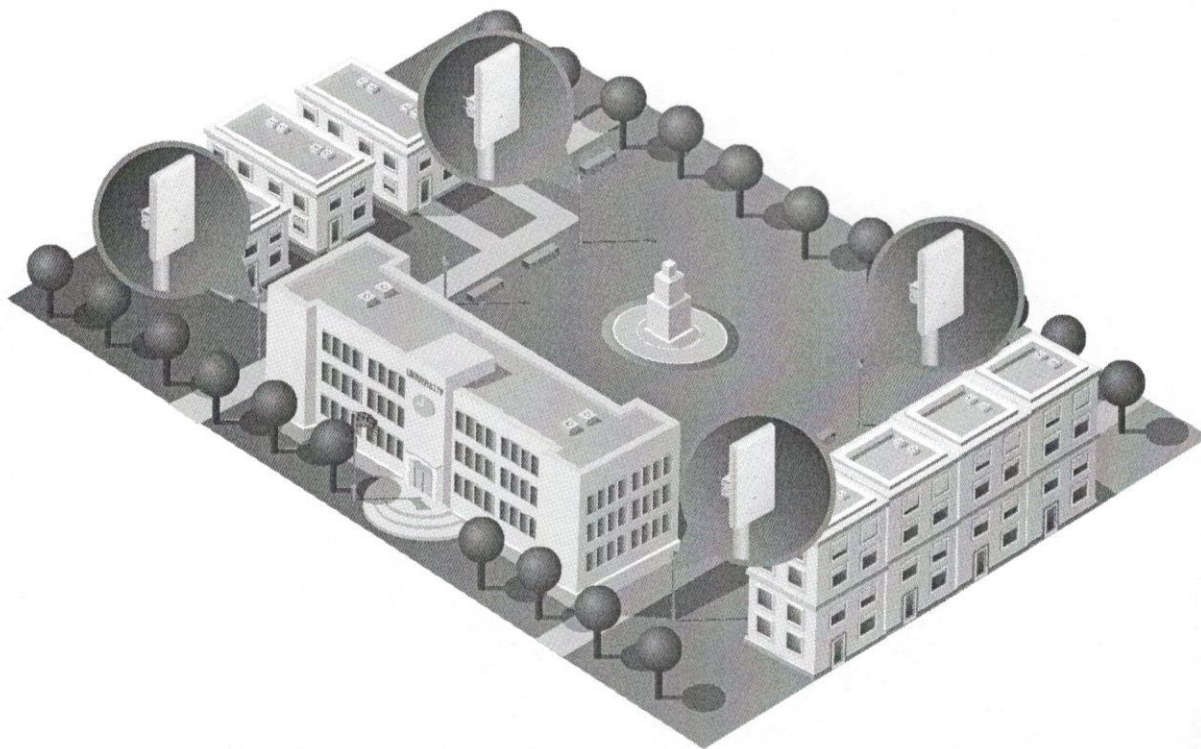
Dual Gigabit Ethernet Ports The primary port is for data and PoE; the secondary port is for bridging.

Multiple Power Options You can power the UAP-AC-M-PRO with an 802.3af compatible switch, UniFi PoE Switch, or the included Gigabit PoE adapter*.

* Five-packs do not ship with PoE adapters; we recommend powering the UniFi APs with the UniFi PoE Switch instead.



Application Example



The UniFi AC M Pro APs cover the quad and park on a university campus.

UAP-AC-M Specifications

6.7.
8.,9.

UAP-AC-M	
Dimensions	353 x 46 x 34.4 mm (13.9 x 1.81 x 1.35")
Weight	152 g (5.36 oz) with Antennas
Networking Interface	(1) 10/100/1000 Ethernet Port
Buttons	Reset
Power Method	24V Passive PoE (Pairs 4, 5+; 7, 8 Return); 802.3af Alternative A (Pairs 1, 2+; 3, 6 Return) (Supported Voltage Range: 44 to 57VDC)
Power Supply	24V, 0.5A Gigabit PoE Adapter*
Power Save	Supported
Maximum Power Consumption	8.5W
Maximum TX Power	
2.4 GHz	20 dBm
5 GHz	20 dBm
Antennas	(2) External Dual-Band Omni Antennas
2.4 GHz	3 dBi
5 GHz	4 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Pole/Fast-Mount (Kits Included)
Operating Temperature	-30 to 70° C (-22 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Only the single-pack of the UAP-AC-M includes a PoE adapter.

10.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

5.

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 867 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80)
802.11n	6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-M-PRO Specifications

UAP-AC-M-PRO	
Dimensions	343.2 x 181.2 x 60.2 mm (13.51 x 7.13 x 2.37")
Weight	633 g (1.40 lb)
Networking Interface	(2) 10/100/1000 Ethernet Ports
Buttons	Reset
Power Method	802.3af PoE (Supported Voltage Range: 44 to 57VDC)
Power Supply	48V, 0.5A PoE Gigabit Adapter*
Power Save	Supported
Maximum Power Consumption	9W
Maximum TX Power	
2.4 GHz	22 dBm
5 GHz	22 dBm
Antennas	(3) Internal Dual-Band Antennas 8 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Pole (Pole Kit Included)
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Only the single-pack of the UAP-AC-M-PRO includes a PoE adapter.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 1300 Mbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80)
802.11n	6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-M Specifications

UAP-AC-M	
Dimensions	353 x 46 x 34.4 mm (13.9 x 1.81 x 1.35")
Weight	152 g (5.36 oz) with Antennas
Networking Interface	(1) 10/100/1000 Ethernet Port
Buttons	Reset
Power Method	24V Passive PoE (Pairs 4, 5+; 7, 8 Return); 802.3af Alternative A (Pairs 1, 2+; 3, 6 Return) (Supported Voltage Range: 44 to 57VDC)
Power Supply	24V, 0.5A Gigabit PoE Adapter*
Power Save	Supported
Maximum Power Consumption	8.5W
Maximum TX Power	
2.4 GHz	20 dBm
5 GHz	20 dBm
Antennas	(2) External Dual-Band Omni Antennas
2.4 GHz	3 dBi
5 GHz	4 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Pole/Fast-Mount (Kits Included)
Operating Temperature	-30 to 70° C (-22 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Only the single-pack of the UAP-AC-M includes a PoE adapter.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 867 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80)
802.11n	6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

Príloha 5: Datasheet - UniFi AC LR AP



Scalable Enterprise Wi-Fi Management

UniFi® is the revolutionary Wi-Fi system that combines enterprise performance, unlimited scalability, and a central management controller. UniFi 802.11AC Dual-Radio Access Points (APs) have a refined industrial design and can be easily installed using the included mounting hardware.

Easily accessible through any standard web browser and the UniFi mobile app (iOS or Android), 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.

Features

Save Money and Save Time Unlike traditional enterprise Wi-Fi systems that use a hardware controller, UniFi comes bundled with a non-dedicated software controller that can be deployed on an on-site PC, Mac, or Linux machine; in a private cloud; or using a public cloud service.

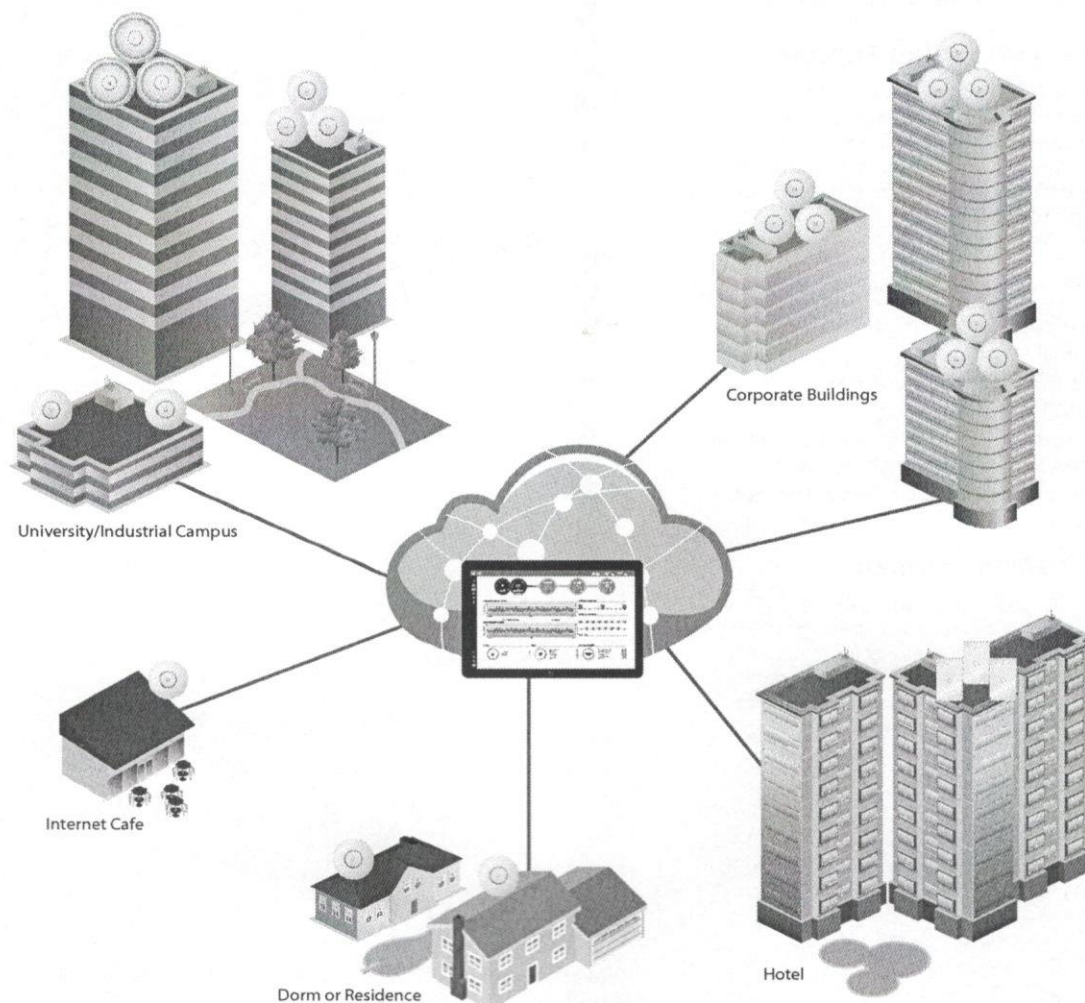
Powerful Hardware The UniFi 802.11AC Dual-Radio APs feature the latest in Wi-Fi 802.11AC MIMO technology.

Intuitive UniFi Controller Software Configure and manage your APs with the easy-to-learn user interface.

Expandable Unlimited scalability: build wireless networks as big or small as needed. Start with one (or upgrade to a three-pack) and expand to thousands while maintaining a single unified management system.

Extend Your Coverage

With the UniFi Controller software running in a NOC or in the cloud, administrators can manage multiple sites: multiple, distributed deployments and multi-tenancy for managed service providers. Below are some deployment examples.



UniFi Controller

Packed with Features

4. Use the UniFi Controller to provision thousands of UniFi APs, map out networks, quickly manage system traffic, and provision additional UniFi APs.

Breakthrough RF Map

Use the RF map to monitor and analyze radio frequencies for optimal AP placement, configuration, and troubleshooting.

Powerful RF Performance Features

Advanced RF performance and configuration features include spectral analysis, airtime fairness, and band steering.

Detailed Analytics

Use the configurable reporting and analytics to manage large user populations and expedite troubleshooting.

Wireless Uplink

Wireless Uplink functionality enables wireless connectivity between APs for extended range. One wired UniFi AP uplink supports up to four wireless downlinks on a single operating band, allowing wireless adoption of devices in their default state and real-time changes to network topology.

Guest Portal/Hotspot Support

Easy customization and options for Guest Portals include authentication, Hotspot setup, and the ability to use your own external portal server. Use UniFi's rate limiting for your Guest Portal/Hotspot package offerings. Apply different bandwidth rates (download/upload), limit total data usage, and limit duration of use.

All UniFi APs include Hotspot functionality:

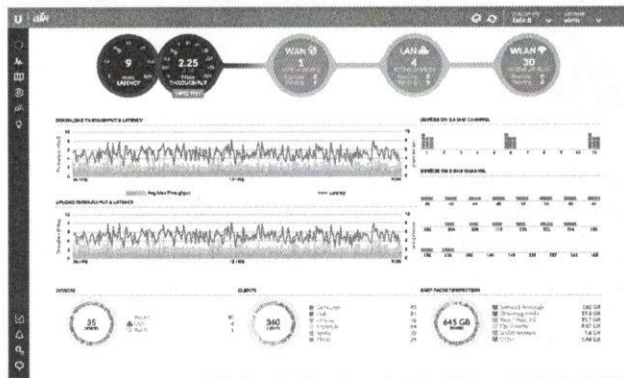
- Built-in support for billing integration using major credit cards.
- Built-in support for voucher-based authentication.
- Built-in Hotspot Manager for voucher creation, guest management, and payment refunds.
- Full customization and branding of Hotspot portal pages.

Multi-Site Management

A single UniFi Controller running in the cloud can manage multiple sites: multiple, distributed deployments and multi-tenancy for managed service providers. Each site is logically separated and has its own configuration, maps, statistics, guest portal, and administrator read/write and read-only accounts.

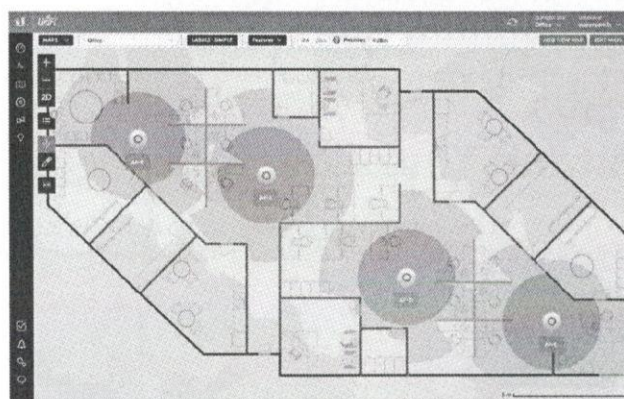
WLAN Groups

The UniFi Controller can manage flexible configurations of large deployments. Create multiple WLAN groups and assign them to an AP's radio.



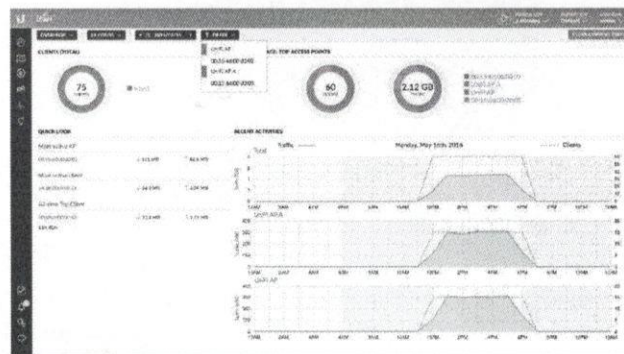
Dashboard

UniFi provides a visual representation of your network's status and delivers basic information about each network segment.



RF Map

Monitor UniFi APs and analyze the surrounding RF environment.



Statistics

UniFi visualizes network traffic in clear and easy-to-read graphs.



UniFi Mobile App

Manage your UniFi devices from your smartphone or tablet.

Models

Hardware Overview

Easy Mounting Sleek design for seamless integration into any environment (all accessories included).

LED Unique provisioning and status LED provides administrator location tracking and alerts for each device.

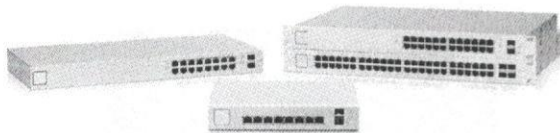
Designed for the Great Outdoors The UniFi AC Pro features weatherproof casing designed specifically for outdoor applications.

Advanced Acoustic Speaker The UniFi AC EDU AP provides high-quality sound with accurate voice reproduction for announcements over Wi-Fi.

Power over Ethernet (PoE) Includes PoE functionality. Each single-pack – except for the UniFi AC In-Wall AP, In-Wall Pro AP, and Pro AP – includes a PoE adapter.

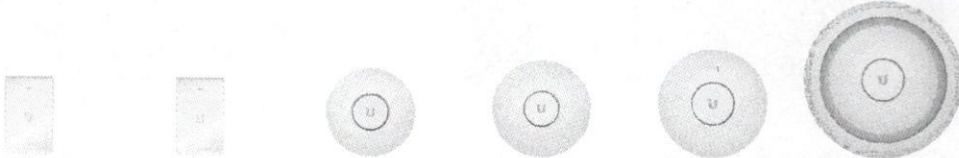
PoE Switching

UniFi Switch with PoE You can power your UniFi devices with a UniFi PoE Switch (sold separately). 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+.



PoE Standards The UniFi AC EDU, In-Wall, In-Wall Pro, and Pro APs are compatible with an 802.3at PoE+ compliant switch. The UniFi AC Pro AP can also use 802.3af PoE.

Model Comparison Chart



	UAP-AC-IW	UAP-AC-IW-PRO	UAP-AC-LITE	UAP-AC-LR	UAP-AC-PRO	UAP-AC-EDU
Environment	Indoor	Indoor	Indoor	Indoor	Indoor/Outdoor	Indoor
Simultaneous Dual-Band	✓	✓	✓	✓	✓	✓
2.4 GHz Radio Rate	300 Mbps	450 Mbps	300 Mbps	450 Mbps	450 Mbps	450 Mbps
2.4 GHz MIMO	2x2	3x3	2x2	3x3	3x3	3x3
11. 5 GHz Radio Rate	867 Mbps	1300 Mbps	867 Mbps	867 Mbps	1300 Mbps	1300 Mbps
5 GHz MIMO	2x2	3x3	2x2	2x2	3x3	3x3
Secondary Ethernet Port	✓ (2 Additional Ports)	✓ (2 Additional Ports)			✓	✓
Loudspeaker						✓
PoE Mode	802.3at PoE+	802.3at PoE+	802.3af/A PoE 24V Passive PoE	802.3af/A PoE 24V Passive PoE	802.3af PoE 802.3at PoE+	802.3at PoE+
Ceiling Mount			✓	✓	✓	✓
Wall Mount	✓	✓	✓	✓	✓	✓
Wireless Uplink	✓	✓	✓	✓	✓	✓
DFS Certification	✓	✓	✓	✓	✓	✓



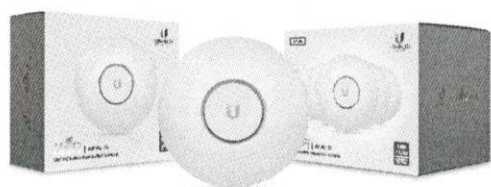
UAP-AC-IW

The UniFi AC In-Wall AP transforms an Ethernet wall connection into a dual-band 802.11AC Wi-Fi Access Point. It features two Gigabit Ethernet ports, one of which delivers PoE to power and connects an 802.3af device to the network. The UniFi AC In-Wall AP provides simultaneous, dual-band, 2x2 MIMO technology and is available in single- and five-packs¹.



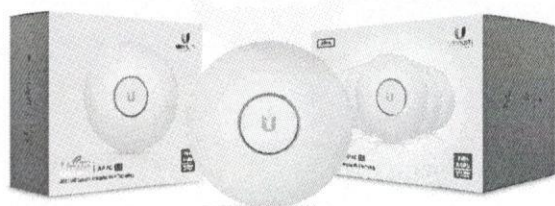
UAP-AC-IW-PRO

The UniFi AC In-Wall Pro AP transforms an Ethernet wall connection into a simultaneous, dual-band 802.11AC Wi-Fi Access Point with 3x3 MIMO technology and 50% higher radio rates than the UAP-AC-IW. The UniFi AC In-Wall Pro features two Gigabit Ethernet ports, one of which delivers PoE to power and connects an 802.3af device to the network. It is available in single- and five-packs¹.



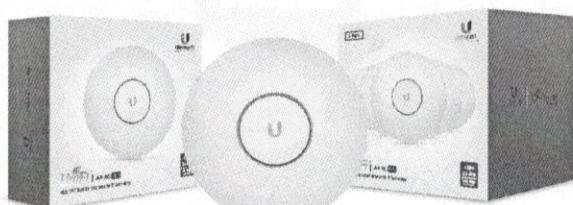
UAP-AC-LITE

Featuring an ultra-compact design, the UniFi AC Lite AP delivers a cost-effective combination of value and performance in a reduced footprint: 25% smaller than the standard UniFi AP. The UniFi AC Lite AP provides simultaneous, dual-band, 2x2 MIMO technology and is available in single- and five-packs².



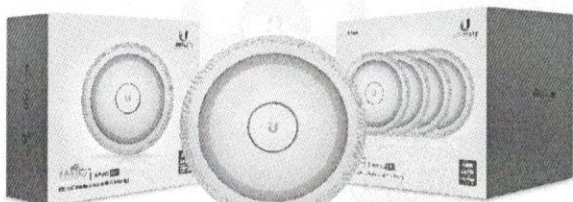
UAP-AC-LR

Ideal for long-range deployments, the UniFi AC LR AP offers simultaneous, dual-band operation with 3x3 MIMO in the 2.4 GHz band and 2x2 MIMO in the 5 GHz band. The innovative antenna design provides a long-range, symmetrical-link coverage area, and the antenna gain of the UniFi AC LR AP performs better than one-way, high transmit power does for connecting distant clients. It is available in single- and five-packs².



UAP-AC-PRO

Deploy the UniFi AC Pro AP indoors or outdoors, in wireless networks requiring maximum performance. Sporting a weatherproof design, the UniFi AC Pro AP features simultaneous, dual-band, 3x3 MIMO technology and convenient 802.3af PoE/802.3at PoE+ compatibility. It is available in single- and five-packs¹.



UAP-AC-EDU

The UniFi AC EDU AP conveniently integrates Wi-Fi and public address capabilities, making it ideal for campus-wide deployment. The UniFi AC EDU AP features simultaneous, dual-band, 3x3 MIMO technology and convenient 802.3at PoE+ compatibility. It is available in single- and four-packs².

¹ We recommend powering the UniFi APs with the UniFi PoE Switch, as PoE adapters are not included.

² Four- and five-packs do not ship with PoE adapters; we recommend powering the UniFi APs with the UniFi PoE Switch instead.

Models

Hardware Overview

Easy Mounting Sleek design for seamless integration into any environment (all accessories included).

LED Unique provisioning and status LED provides administrator location tracking and alerts for each device.

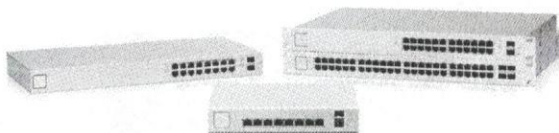
Designed for the Great Outdoors The UniFi AC Pro features weatherproof casing designed specifically for outdoor applications.

Advanced Acoustic Speaker The UniFi AC EDU AP provides high-quality sound with accurate voice reproduction for announcements over Wi-Fi.

Power over Ethernet (PoE) Includes PoE functionality. Each single-pack – except for the UniFi AC In-Wall AP, In-Wall Pro AP, and Pro AP – includes a PoE adapter.

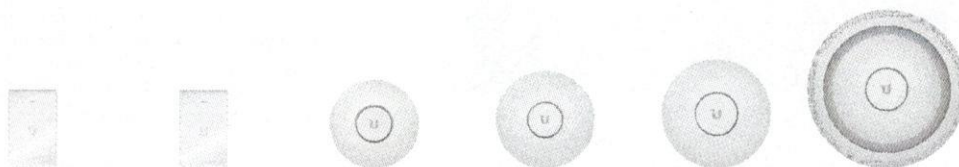
PoE Switching

UniFi Switch with PoE You can power your UniFi devices with a UniFi PoE Switch (sold separately). 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+.



PoE Standards The UniFi AC EDU, In-Wall, In-Wall Pro, and Pro APs are compatible with an 802.3at PoE+ compliant switch. The UniFi AC Pro AP can also use 802.3af PoE.

Model Comparison Chart



11.

	UAP-AC-IW	UAP-AC-IW-PRO	UAP-AC-LITE	UAP-AC-LR	UAP-AC-PRO	UAP-AC-EDU
Environment	Indoor	Indoor	Indoor	Indoor	Indoor/Outdoor	Indoor
Simultaneous Dual-Band	✓	✓	✓	✓	✓	✓
2.4 GHz Radio Rate	300 Mbps	450 Mbps	300 Mbps	450 Mbps	450 Mbps	450 Mbps
2.4 GHz MIMO	2x2	3x3	2x2	3x3	3x3	3x3
5 GHz Radio Rate	867 Mbps	1300 Mbps	867 Mbps	867 Mbps	1300 Mbps	1300 Mbps
5 GHz MIMO	2x2	3x3	2x2	2x2	3x3	3x3
Secondary Ethernet Port	✓ (2 Additional Ports)	✓ (2 Additional Ports)			✓	✓
Loudspeaker						✓
PoE Mode	802.3at PoE+	802.3at PoE+	802.3af/A PoE 24V Passive PoE	802.3af/A PoE 24V Passive PoE	802.3af PoE 802.3at PoE+	802.3at PoE+
Ceiling Mount			✓	✓	✓	✓
Wall Mount	✓	✓	✓	✓	✓	✓
Wireless Uplink	✓	✓	✓	✓	✓	✓
DFS Certification	✓	✓	✓	✓	✓	✓

UAP-AC-IW Specifications

UAP-AC-IW	
Dimensions	139.7 x 86.7 x 25.75 mm (5.5 x 3.41 x 1.01")
Weight	200 g (6.43 oz)
Networking Interface	(3) 10/100/1000 Ethernet Ports
Buttons	Reset
Power Method	802.3at PoE+ Supported
Power Supply	UniFi PoE Switch (Not Included)
Power Save	Supported
PoE Out	48V Pass-Through (Pins 1, 2+; 3, 6-)
Maximum Power Consumption with PoE Passthrough	7W 19W*
Maximum TX Power	
2.4 GHz	20 dBm
5 GHz	20 dBm
Antennas	(1) Dual-Band Antenna, Single-Polarity
2.4 GHz	1 dBi
5 GHz	2 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	1-Gang Electrical Wall Box (Not Included)
Operating Temperature	-10 to 50° C (14 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Requires 802.3at PoE+ switch

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 867 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80)
802.11n	6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-IW-PRO Specifications

UAP-AC-IW-PRO	
Dimensions	139.7 x 86.7 x 25.75 mm (5.5 x 3.41 x 1.01")
Weight	210 g (7.41 oz)
Networking Interface	(3) 10/100/1000 Ethernet Ports
Buttons	Reset
Power Method	802.3at PoE+ Supported
Power Supply	UniFi PoE Switch (Not Included)
Power Save	Supported
PoE Out	48V Pass-Through (Pins 1, 2+; 3, 6-)
Maximum Power Consumption with PoE Passthrough	10W 22W*
Maximum TX Power	
2.4 GHz	22 dBm
5 GHz	22 dBm
Antennas	(1) Dual-Band Antenna, Single-Polarity
2.4 GHz	5 dBi
5 GHz	6.5 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	1-Gang Electrical Wall Box (Not Included)
Operating Temperature	-10 to 50° C (14 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Requires 802.3at PoE+ switch

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 1300 Mbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80)
802.11n	6.5 Mbps to 450 Mbps (MCS0 - MCS15, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-LITE Specifications

UAP-AC-LITE	
Dimensions	160 x 160 x 31.45 mm (6.30 x 6.30 x 1.24")
Weight	170 g (6.0 oz)
With Mounting Kits	185 g (6.5 oz)
Networking Interface	(1) 10/100/1000 Ethernet Port
Buttons	Reset
Power Method	802.3af/A PoE 24V Passive PoE (Pairs 4, 5+; 7, 8 Return)
Power Supply	24V, 0.5A Gigabit PoE Adapter*
Power Save	Supported
Maximum Power Consumption	6.5W
Maximum TX Power	
2.4 GHz	20 dBm
5 GHz	20 dBm
Antennas	(2) Dual-Band Antennas, 3 dBi Each
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Ceiling (Kits Included)
Operating Temperature	-10 to 70° C (14 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Only the single-pack of the UAP-AC-LITE includes a PoE adapter.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 867 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80)
802.11n	6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-LR Specifications

UAP-AC-LR	
Dimensions	175.7 x 175.7 x 43.2 mm (6.92 x 6.92 x 1.70")
Weight	240 g (8.5 oz)
With Mounting Kits	315 g (11.1 oz)
Networking Interface	(1) 10/100/1000 Ethernet Port
Buttons	Reset
Power Method	802.3af/A PoE 24V Passive PoE (Pairs 4, 5+; 7, 8 Return)
Power Supply	24V, 0.5A Gigabit PoE Adapter*
Power Save	Supported
Maximum Power Consumption	6.5W
Maximum TX Power	
2.4 GHz	24 dBm
5 GHz	22 dBm
Antennas	(1) Dual-Band Antenna, Tri-Polarity, 2.4 GHz: 3 dBi, 5 GHz: 3 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Ceiling (Kits Included)
Operating Temperature	-10 to 70° C (14 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

* Only the single-pack of the UAP-AC-LR includes a PoE adapter.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 867 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80)
802.11n	6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-PRO Specifications

UAP-AC-PRO	
Dimensions	196.7 x 196.7 x 35 mm (7.74 x 7.74 x 1.38")
Weight	350 g (12.4 oz)
With Mounting Kits	450 g (15.9 oz)
Networking Interface	(2) 10/100/1000 Ethernet Ports
Port	(1) USB 2.0 Port
Buttons	Reset
Power Method	Passive Power over Ethernet (48V), 802.3af/802.3at Supported (Supported Voltage Range: 44 to 57VDC)
Power Supply	UniFi Switch (PoE)
Power Save	Supported
Maximum Power Consumption	9W
Maximum TX Power	
2.4 GHz	22 dBm
5 GHz	22 dBm
Antennas	(3) Dual-Band Antennas, 2.4 GHz: 3 dBi, 5 GHz: 3 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Ceiling (Kits Included)
Operating Temperature	-10 to 70° C (14 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	125+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 1300 Mbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80)
802.11n	6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

UAP-AC-EDU Specifications

UAP-AC-EDU	
Dimensions	287.5 x 287.5 x 125.9 mm (11.32 x 11.32 x 4.96")
Weight	1.820 kg (4.012 lb)
Networking Interface	Dual-Band Wi-Fi / Gigabit Ethernet
Ports	(2) 10/100/1000 Ethernet Ports (1) USB 2.0 Port
Buttons	Reset
Power Method	Passive Power over Ethernet (48V), 802.3at Supported (Supported Voltage Range: 44 to 57VDC)
Power Supply	48V, 0.5A PoE Gigabit Adapter*
Power Save	Supported
Maximum Power Consumption	20W
Maximum TX Power	
2.4 GHz	22 dBm
5 GHz	22 dBm
Antennas	(3) Dual-Band Antennas, 2.4 GHz: 3 dBi, 5 GHz: 3 dBi
Wi-Fi Standards	802.11 a/b/g/n/r/k/v/ac
Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
BSSID	Up to 8 per Radio
Mounting	Wall/Ceiling (Kits Included)
Operating Temperature	-10 to 70° C (14 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

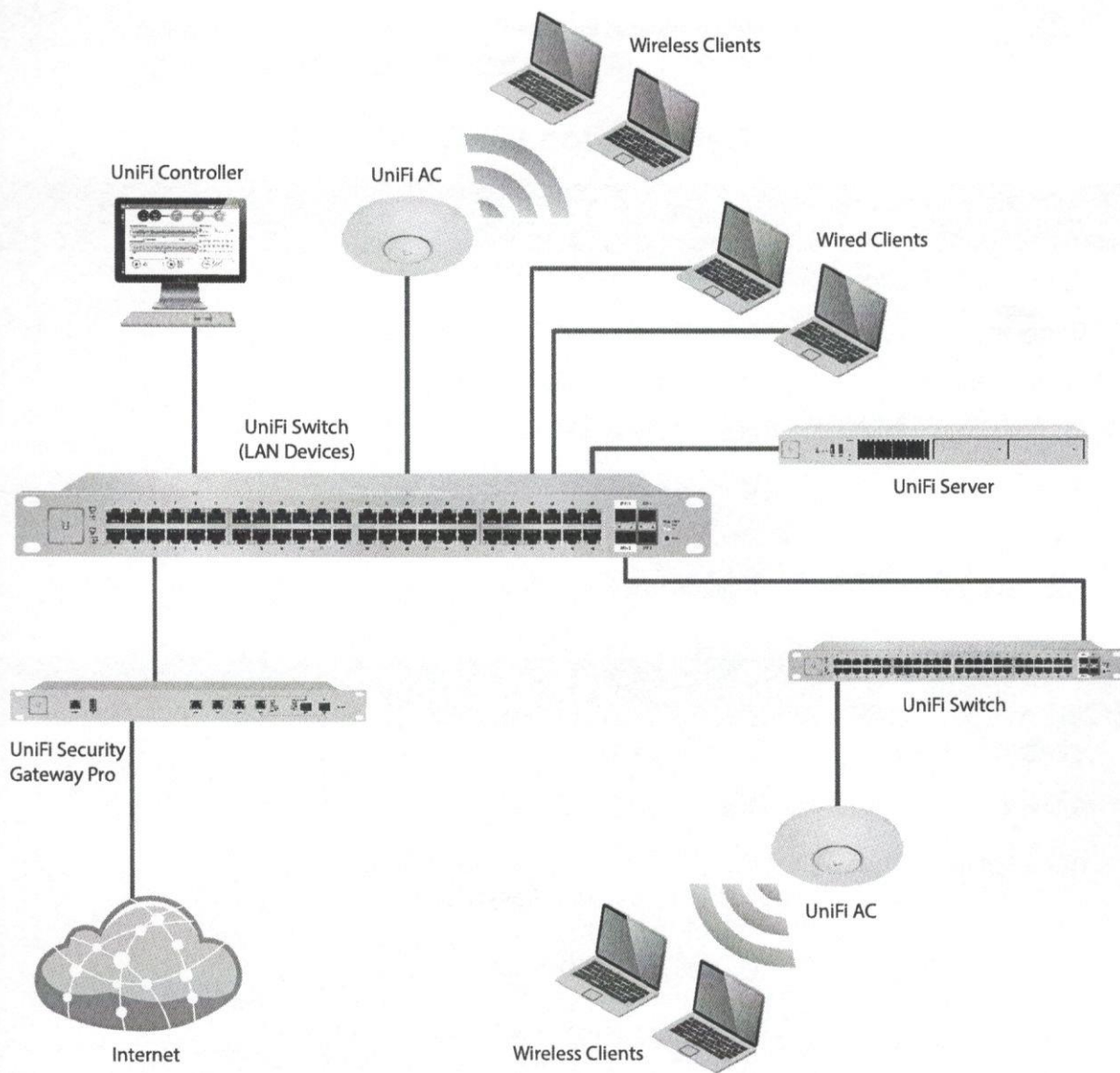
* Only the single-pack of the UAP-AC-EDU includes a PoE adapter.

Advanced Traffic Management	
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
WMM	Voice, Video, Best Effort, and Background
Concurrent Clients	250+

Supported Data Rates (Mbps)	
Standard	Data Rates
802.11ac	6.5 Mbps to 1300 Mbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80)
802.11n	6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40)
802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps

Loudspeaker Acoustics	
Sensitivity	94 dB (1W/1 m)
Maximum SPL	103 dB @ 1 m
Frequency Response	100 - 20,000 Hz
Type	Two-Way Speaker with Second-Order HP Filter

System Example



Priloha 6: Wi-Fi Certified - Unifi AC Mesh AP



Wi-Fi CERTIFIED™ Certificate

This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs



Certification ID: WFA96828

Product Info

Date of Certification	March 17, 2020
Company	Ubiquiti Inc.
Product Name	UniFi Access Point AC Mesh
Product Model Variant	2020-03-17 (WFA96828 - 10720707)
Model Number	UAP-AC-M
Category	Routers
Sub-category	Enterprise/Service Provider Access Point, Switch/Controller or Router

Summary of Certifications

CLASSIFICATION	CERTIFICATION
12. Access	Passpoint® Release 2
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM®
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2018-04
Spectrum & Regulatory Features	Spectrum & Regulatory



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA96828



Role: Access Point

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

ca-gen2-wfa.11264

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz
40 MHz Channel Width in 2.4 GHz

5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz
40 MHz Channel Width in 5 GHz
80 MHz Channel Width in 5 GHz

Passpoint® Release 2

Online Sign Up and Policy provisioning

Protected Management Frames

Spectrum & Regulatory

802.11d
802.11h

WMM®

WPA2™-Enterprise 2018-04

EAP methods

WPA2™-Personal 2018-04

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

RTS with BW Signaling
Extended 5 GHz Channel Support
A-MPDU with A-MSDU
LDPC Rx
LDPC Tx
MCS 8-9 Rx
Short Guard Interval
STBC

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA96828



Role: Access Point

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Wi-Fi CERTIFIED™ n (continued)

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx

Príloha 7: Wi-Fi Certified - Unifi AC LR AP



Wi-Fi CERTIFIED™ Certificate

This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org/certification/programs



Certification ID: WFA65994

Product Info

Date of Certification	February 28, 2020
Company	Ubiquiti Inc.
Product Name	UniFi Access Point AC PRO
Product Model Variant	2020-02-28 (WFA65994 - 10386071)
Model Number	UAP-AC-PRO
Category	Routers
Sub-category	Enterprise/Service Provider Access Point, Switch/Controller or Router

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 2
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM® WMM®-Power Save
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2018-04
Spectrum & Regulatory Features	Spectrum & Regulatory

12.



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA65994



Role: Access Point

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

ca-gen2-wfa.11264

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	3	3
5 GHz	3	3

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz
40 MHz Channel Width in 2.4 GHz

WMM®-Power Save

Legacy Power Save
Unschedule auto PS

5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz
40 MHz Channel Width in 5 GHz
80 MHz Channel Width in 5 GHz

WPA2™-Enterprise 2018-04

EAP methods

WPA2™-Personal 2018-04

Passpoint® Release 2

Online Sign Up and Policy provisioning

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU
LDPC Rx
LDPC Tx
MCS 8-9 Rx
Short Guard Interval
STBC

Protected Management Frames

Spectrum & Regulatory

802.11d
802.11h

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

WMM®



Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA65994



Role: Access Point

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Wi-Fi CERTIFIED™ n

OBSS on Extension Channel

Short Guard Interval

STBC

A-MPDU Tx

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