

Dodatok č. 1 k ZMLUVE O DIELO č.2/2020
zo dňa 11.6.2020
v zmysle § 18 ods. 1 písm. e) zákona o verejnom obstarávaní

1.1 Objednávateľ

Obec Kanská

Kanská 244

032 04 Kanská

IČO: 00590657

DIČ: 2020580254

Bankové spojenie: VUB banka, a.s.

číslo účtu: SK84 0200 0000 0000 2732 6342

Štatutárny zástupca: **Ing. Miroslav Kamhal – starosta obce**

1.2 Zhotoviteľ:

ALCONET, s.r.o.

M. Pišúta 979/4

031 01 Liptovský Mikuláš

IČO: 36419702

Osvedčenie pre DPH: SK2021833308

Bankové spojenie: ČSOB, a.s.

číslo účtu: SK72 7500 0000 0040 0863 4815

Štatutárny zástupca: **Ing. Branislav Brt'ka, konateľ**

Firma je zapísaná v Obchodnom registri Okresného súdu Žilina, oddiel : Sro, vložka č. 15061/L

Čl. I Predmet dodatku

- 1.1. Zmluvné strany sa na základe vzájomnej dohody rozhodli v zmysle § 18 ods. 1 písm. e) zákona o verejnom obstarávaní uzatvoriť tento dodatok k zmluve o dielo zo dňa 11.6.2020, ktorého predmetom je
- 1.2. zosúladienie zmluvných podmienok s podmienkami výzvy na predkladanie žiadostí o NFP OPII-2018/7/1-DOP - "WiFi pre Teba", v rámci ktorej je projekt realizovaný.

Čl. II Zmeny ustanovení a doplnenie zmluvy

- 2.1. Doplnenie bodu 2.3. o text:

Predmetom zmluvy je vybudovanie WiFi prístupových bodov na miestach komunitného života, ktoré poskytnú bezplatné WiFi pripojenie všetkým občanom a návštevníkom obce k širokopásmovému internetu o minimálnej rýchlosti 30Mbit/s. Zhotoviteľ nainštaluje potrebnú kabeláž, dodá a osadí zariadenia, zapojí aktívne prvky do el. siete, oživí ich, nakonfiguruje, zapojí na sieť internet, nastaví úvodnú stránku,

prihlasovaciú politiku, monitoring a iné funkcionality v zmysle požiadaviek prijímateľa NFP a platnej legislatívy. Inštalované AP budú vzájomne prepojené rádiovým. Navrhnuté AP a ich technické parametre budú v súlade so schválenou Štúdiou uskutočniteľnosti v zmysle TSTP v rámci "Wifi pre Teba".

Inštalované bezdrôtové prístupové body budú spĺňať nasledovné technické parametre:

- Kompaktné dvojpásmové WiFi zariadenia (2,4GHz - 5 GHz), ktoré sú certifikované pre európsky trh
 - Životný cyklus použitých produktov vyšší ako 5 rokov
 - Stredná doba medzi poruchami (MTBF) minimálne 5 rokov
 - Možnosť centrálného manažmentu pre riadenie, monitoring a konfiguráciu siete (single point of management)
 - Súlad s „802.11ac Wave I, Institute of Electrical and Electronics Engineers“ (IEEE) štandardom
 - Podpora 802.1x IEEE štandardu
 - Podpora 802.11r IEEE štandardu
 - Podpora 802.11k IEEE štandardu
 - Podpora 802.11v IEEE štandardu
 - Schopnosť AP obsluhovať naraz aspoň 50 rôznych užívateľov bez zníženia kvality služby
 - Minimálne 2x2 MIMO (multiple-input-multiple-output)
 - Súlad s Hotspot 2.0 (Passpoint WiFi Alliance certification program)
 - 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.
- Projekt prispieva k HP Udržateľný rozvoj (tematický cieľ 2 „zlepšenie prístupu k IKT a zlepšenie Európu širokou podporou ich využívania a kvality), predovšetkým k jeho ekon. pilieru. Projekt napĺňa Digitálnu agendu pre budovania jednotného digitálneho trhu EÚ.

V obci budú umiestnené WiFi AP prístupové body nasledovne:

Externé AP v počte 8 ks:

- detské ihrisko N 49.1185151 ° E 19.7181067 °
- oddychová zóna minerálny prameň Medokýš N 49.1207340 °E 19.7169426 ° ,
- multifunkčné ihrisko N 49.1173257 ° E 19.7183615 ° ,
- oddychová zóna N 49.1174117 ° E 19.7145581 °
- zástavka autobusu "Hájenska" N 49.1162807 ° E 19.7195940 °
- cintorín N 49.1177769 ° E 19.7150624 °
- cyklotrasa N 49.1158300 ° E 19.7129649 °
- oddychová zóna(zástavka autobusu, úradná tabuľa – centrum obce) N 49.1187595 ° E 19.7174536 ° .

Interné AP v počte 3 ks:

- obecný úrad, Kónská 244,N 49.1187644 °E 19.7167790 °
- knižnica, Kónská 244,N 49.1188280 ° E 19.7167991 °
- kultúrny dom. Kónská 244, N 49.1188276 °E 19.7165322 °

2.2. Ods. 3.1. sa dopĺňa o text:

Neoddeliteľnou súčasťou zmluvy sú aj tieto prílohy podrobne opisujúce predmet zmluvy:

- Príloha č. 1 – Cenová ponuka zhotoviteľa
- Príloha č. 2 – Test splnenie technických parametrov
- Príloha č. 3 – Podrobný popis prístupových bodov (AP) s väzbou na finančné limity
- Príloha č. 4 – Technické listy dodávaných aktívnych prvkov

2.3. Ods. 3.4. sa v pôvodnom text opravuje suma dohodnutej ceny bez DPH:

„... (zo 14999,76 €) za každý deň omeškania.“

na správnu sumu:

„... (zo 12499,80 €) za každý deň omeškania.“

2.4. Ods. 6.1 sa ruší v plnom znení a nahrádza sa textom:

„Dodávateľ preberá záruku za akosť vykonaných prác v zmysle obchodného zákonníka. Záručná doba pri jednotlivých komponentoch technologických častí je určená ich výrobcom v záručných listoch. Záručná doba za montážne práce a kabeláž sa poskytuje v dĺžke 60 mesiacov, pričom záruka začína plynúť od ukončenia diela v zmysle tejto zmluvy. Dodávateľ zodpovedá, že celý predmet zákazky bude počas 60 mesiacov spôsobilý na zmluvný účel a zachová si počas tejto lehoty dohodnuté vlastnosti.“

2.5. Doplnenie ods. 8.10 o text:

8.10. Objednávateľ má právo bez akýchkoľvek sankcií odstúpiť od zmluvy so zhotoviteľom v prípade, kedy ešte nedošlo k plneniu zo zmluvy o dielo a výsledky kontroly RO neumožňujú financovanie výdavkov vzniknutých z tohto obstarávania.


Čl. II Záverečné ustanovenia

1. Ostatné ustanovenia zmluvy o dodávke tovaru zo dňa 11.6.2020 ostávajú nezmenené.
2. Tento dodatok nadobúda platnosť dňom podpísania zástupcami oboch zmluvných strán.
3. Tento dodatok nadobúda účinnosť po skontrolovaní a odsúhlasení verejného obstarávania sprostredkovateľským orgánom pre OP Integrovaná infraštruktúra, pričom o výsledku kontroly bude odberateľ dodávateľa bezodkladne informovať.
4. Dodatok je vypracovaný v 4 vyhotoveniach, z ktorých 2 sú určené pre Dodávateľa a 2 pre odberateľa.

V Kongskej, dňa: 19.8.2020

V Liptovskom Mikuláš, dňa: 19.8.2020

Za objednávateľa:



Ing. Miroslav KAMHAL

starosta obce



Za zhotoviteľa:



Ing. Branislav BRŤKA

konateľ spoločnosti

Príloha č.1 – Cenová ponuka zhotoviteľa



ALCONET, s.r.o., M. Pišúta 979/4, 03101 Lipt. Mikuláš

Ponuka na dodanie tovaru WiFi pre Teba - obec Konská

Položka	Položka	MJ	Množstvo	J. cena	Celk. Cena
	Materiál			bez DPH	bez DPH
Prístupové body					
1	Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	8	190,00 €	1 520,00 €
2	Ubiquiti AP, vnútorná jednotka Hot Spot	ks	3	320,00 €	960,00 €
3	Cloud Key Controller	ks	1	99,00 €	99,00 €
4	hybridný optický kábel 24-vlákno, 2x 2,5CU	m	400	2,20 €	880,00 €
5	Security Gateway	ks	1	250,00 €	250,00 €
6	Záložný zdroj UPS 230V 1000VA	ks	1	290,00 €	290,00 €
7	Stojanový rozvádzač 12U (š)600x(h)600	ks	1	290,00 €	290,00 €
8	Napájací panel ACAR 8x 230V , 1U, 3m kábel, BK	ks	1	38,00 €	38,00 €
9	CYKY 3 x 2,5	m	100	1,44 €	144,00 €
10	FXP chránička	m	100	1,55 €	155,00 €
11	Bezdrôtový vysielač na Hotspoty	ks	1	190,00 €	190,00 €
12	Bezdrôtové prijímače na Hotspot body	ks	8	90,00 €	720,00 €
13	PoE Switch 4xFE	ks	4	49,00 €	196,00 €
14	Pigtail SC/UPC SM 9/125 1m	ks	6	1,15 €	6,90 €
15	Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	9	170,00 €	1 530,00 €
16	Záložný zdroj 700VA	ks	9	110,00 €	990,00 €
17	Media convertor SFP / ETH	ks	6	39,00 €	234,00 €
18	Mini GBIC SFP	ks	3	39,00 €	117,00 €
19	PoE Switch 8xGLAN, 2xSFP	ks	1	160,40 €	160,40 €
20	montážne prvky na optický závesný kábel	ks	12	29,00 €	348,00 €
21	CAT5E FTP drôt, interiér	m	150	0,55 €	82,50 €
22	Vonkajší kábel FTP CAT5e PE	m	50	1,10 €	55,00 €
23	Ostatný inštalačný materiál	ks	1	60,00 €	60,00 €
					9 315,80 €
Práca					
24	Montáž aktívnych prvkov, nastavenie	ks	11	25,00 €	275,00 €
25	Výkopové práce	nh	24	20,00 €	480,00 €
26	Betonáž, zásyp a osadenie stĺpa	ks	12	120,00 €	1 440,00 €
27	Inštalácia optického kábla, optické zvary	m	400	1,00 €	400,00 €
28	Montáž zariadení – RACK	ks	1	99,00 €	99,00 €
29	Práca vo výškach	hod	30	10,00 €	300,00 €
30	Montáž elektrickej trasy	m	100	0,90 €	90,00 €
31	Nastavenie a oživenie systému	ks	1	100,00 €	100,00 €
					3 184,00 €
				Spolu celkom bez DPH:	12 499,80 €
				DPH:	2 499,96 €
				Spolu celkom s DPH:	14 999,76 €



Test splnenia technických parametrov (TSTP) v rámci "Wifi pre Teba"

TSTP slúži pre žiadateľa ako podklad pre špecifikáciu riešenia spĺňajúcu minimálne technické parametre požadovaných výzvu.

Technické parametre riešenia sú navrhnuté v súlade so schválenou Štúdiou uskutočniteľnosti <https://metais.finance.gov.sk/studia/detail/8c95df2d-700e-47ce-a1b0-4cbf3334b453?tab=documents> a musia spĺňať požiadavky Robustného, Spoľahlivého a Bezpečného produktu, ktorý poskytne občanom bezplatný prístup na internet prostredníctvom Wifi pripojenia.

1. **Robustný:** definuje minimálne technické parametre Prístupového bodu (Access pointu), resp. ostatného HW vybavenia,
2. **Spoľahlivý:** definuje minimálne podmienky pre poskytnutie kvalitného internetového pripojenia,
3. **Bezpečný:** definuje minimálne podmienky pre sieťovú a fyzickú bezpečnosť.

Upozornenie: výsledky tohto testu slúžia výlučne pre potreby žiadateľa a nie sú zárukou výsledku v procese schvaľovania žiadosti o NFP.

Otázka č.	Znenie otázky	Odpoveď (po kliknutí na bunku vyberte jednu z možností)
1.	Kompaktné dvojpásmové WiFi zariadenia (2,4GHz - 5 GHz), ktoré sú certifikované pre európsky trh?	Áno
2.	Životný cyklus použitých produktov vyšší ako 5 rokov?	Áno
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
5.	Súlad s „802.11ac Wave 1, Institute of Electrical and Electronics Engineers“ (IEEE) štandardom?	Áno
6.	Podpora 802.1x IEEE štandardu?	Áno
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
11.	Minimálne 2x2 MIMO (multiple-input-multiple-output)?	Áno
12.	Súlad s Hotspot 2.0 (Passpoint WiFi Alliance certification program)?	Áno
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?	Áno

Všetky otázky sú zodpovedané

Minimálne technické podmienky sú zadefinované.

Počet odpovedí "nie" 0

Počet nezodpovedaných otázok 0



Príloha č. 3 - Podrobný popis prístupových bodov (AP) s väzbou na finančné limity

Položka	Merná jednotka	Počet jednotiek	Jednotková cena (v EUR bez DPH)	Vysúťažená suma celkom (v EUR s DPH)	Limity podľa Príručky pre oprávnenosť výdavkov PO7 OPII pre dopytovo orientované projekty „Wifi pre Teba“ (max. suma za 1 AP v EUR s DPH)
Externý prístupový bod (AP) č. 1: detské ihrisko N 49.1185151 ° E 19.7181067 °	(nevypĺňa sa)			1 500,00 €	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevypĺňa sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevypĺňa sa)
Bezdrôtový vysielateľ na Hotspoty	ks	1	190,00	228,00	(nevypĺňa sa)
PoE Switch 4xFE	ks	1	49,00	58,80	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Bezdrôtové prijímače na Hotspot body	ks	1	90,00	108,00	(nevypĺňa sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevypĺňa sa)
ostatný inštalačný materiál, práca	ks	1	451,00	541,20	(nevypĺňa sa)
Externý prístupový bod (AP) č. 2: oddychová zóna minerálny prameň Medokýš N 49.1207340 °E 19.7169426 °	(nevypĺňa sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevypĺňa sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevypĺňa sa)
PoE Switch 4xFE	ks	1	49,00	58,80	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Bezdrôtové prijímače na Hotspot body	ks	2	90,00	216,00	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevypĺňa sa)
ostatný inštalačný materiál, práca	ks	1	381,00	457,20	(nevypĺňa sa)
Externý prístupový bod (AP) č. 3: multifunkčné ihrisko N 49.1173267 ° E 19.7183615 °	(nevypĺňa sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevypĺňa sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevypĺňa sa)
Bezdrôtové prijímače na Hotspot body	ks	1	90,00	108,00	(nevypĺňa sa)
PoE Switch 4xFE	ks	1	49,00	58,80	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevypĺňa sa)
ostatný inštalačný materiál, práca	ks	1	641,00	769,20	(nevypĺňa sa)
Externý prístupový bod (AP) č. 4: oddychová zóna N 49.1174117 ° E 19.7145581 °	(nevypĺňa sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevypĺňa sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevypĺňa sa)
hybridný optický kábel 24-vlákn, 2x 2,5CU	m	50	2,20	132,00	(nevypĺňa sa)
PoE Switch 4xFE	ks	1	49,00	58,80	(nevypĺňa sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevypĺňa sa)
ostatný inštalačný materiál, práca	ks	1	621,00	745,20	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Externý prístupový bod (AP) č. 5: zástavka autobusu "Hájanka" N 49.1162807 ° E 19.7195940 °	(nevypĺňa sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevypĺňa sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevypĺňa sa)
Bezdrôtové prijímače na Hotspot body	ks	2	90,00	216,00	(nevypĺňa sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevypĺňa sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevypĺňa sa)
ostatný inštalačný materiál, práca	ks	1	600,00	720,00	(nevypĺňa sa)

Externý prístupový bod (AP) č. 6: cintorín N 49.1177769 ° E 19.7150624 °	(nevyplní sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevyplní sa)
hybridný optický kábel 24-vlákn, 2x 2,5CU	m	150	2,20	396,00	(nevyplní sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevyplní sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	450,00	540,00	(nevyplní sa)

Externý prístupový bod (AP) č. 7: cyklotrasa N 49.1158300 ° E 19.7129649 °	(nevyplní sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevyplní sa)
hybridný optický kábel 24-vlákn, 2x 2,5CU	m	200	2,20	528,00	(nevyplní sa)
Pigtail SC/UPC SM 9/125 1m	ks	2	1,15	2,76	(nevyplní sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	337,70	405,24	(nevyplní sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevyplní sa)

Externý prístupový bod (AP) č. 8: oddychová zóna(zástavka autobusu, úradná tabuľa – centrum obce) N 49.1187595 ° E 19.7174536 °	(nevyplní sa)			1 500,00	1 500,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vonkajšia jednotka Hot Spot	ks	1	190,00	228,00	(nevyplní sa)
Bezdrôtové prijímače na Hotspot body	ks	2	90,00	216,00	(nevyplní sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevyplní sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	600,00	720,00	(nevyplní sa)

Interný prístupový bod (AP) č. 1: obecný úrad, Kónská 244, N 49.1187644 ° E 19.7167790 °	(nevyplní sa)			999,96	1 000,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vnútorná jednotka Hot Spot	ks	1	320,00	384,00	(nevyplní sa)
Záložný zdroj UPS 230V 1000VA	ks	1	290,00	348,00	(nevyplní sa)
Vonkajšia krabica s krytím IP66 a príslušenstvom pre montáž na stĺp, AC230V/ istič 6A	ks	1	170,00	204,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	15,30	18,36	(nevyplní sa)
Napájaci panel ACAR 8x 230V , 1U, 3m kábel, BK	ks	1	38,00	46,60	(nevyplní sa)

Interný prístupový bod (AP) č. 2: knižnica, Kónská 244, N 49.1188280 ° E 19.7167991 °	(nevyplní sa)			999,96	1 000,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vnútorná jednotka Hot Spot	ks	1	320,00	384,00	(nevyplní sa)
Cloud Key Controller	ks	1	99,00	118,80	(nevyplní sa)
Záložný zdroj 700VA	ks	1	110,00	132,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	14,30	17,16	(nevyplní sa)
Stojanový rozvádzač 12U (š)600x(h)600	ks	1	290,00	348,00	(nevyplní sa)

Interný prístupový bod (AP) č. 3: kultúrny dom, Kónská 244, N 49.1188276 ° E 19.7165322 °	(nevyplní sa)			999,84	1 000,00
rozpísať všetky nákladové položky daného AP, ktoré sú uvedené na faktúre:	(nevyplní sa)				
Ubiquiti AP, vnútorná jednotka Hot Spot	ks	1	320,00	384,00	(nevyplní sa)
Security Gateway	ks	1	250,00	300,00	(nevyplní sa)
ostatný inštalačný materiál, práca	ks	1	263,20	315,84	(nevyplní sa)

Celkom				14 999,76	
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Wi-Fi CERTIFIED™ Interoperability 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

Page 1 of 2

Date of Last Certification	March 17, 2020
Company	Ubiquiti Inc.
Product	UniFi Access Point AC Mesh
Model Number	UAP-AC-M
Product Identifier(s)	
Category	Routers
Subcategory	Enterprise/Service Provider Access Point, Switch/Controller or Router
Hardware Version	Product: MP, Wi-Fi Component: U-AME-G1
Firmware Version	Product: ca-gen2-wfa.11264, Wi-Fi Component: ca-gen2-wfa.11264
Operating System	Linux
Frequency Band(s)	2.4 GHz, 5 GHz - Concurrent

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED™ a, b, g, n, ac WPA2™ – Enterprise, Personal
Optimization	WMM®
Access	Passpoint®



Security

WPA2™ – Enterprise, Personal
EAP Type(s)
Any EAP Type
Protected Management Frames

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz - Concurrent
2 Spatial Streams 2.4 GHz
2 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
STBC Transmit
40 MHz operation in 2.4 GHz, with coexistence mechanisms
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

2 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Tx STBC 2x1
Rx A-MPDU of A-MSDU
Low Density Parity Check coding
RTS with BW Signaling
Extended 5 GHz Channel Support

WMM®

Passpoint®

Release 2

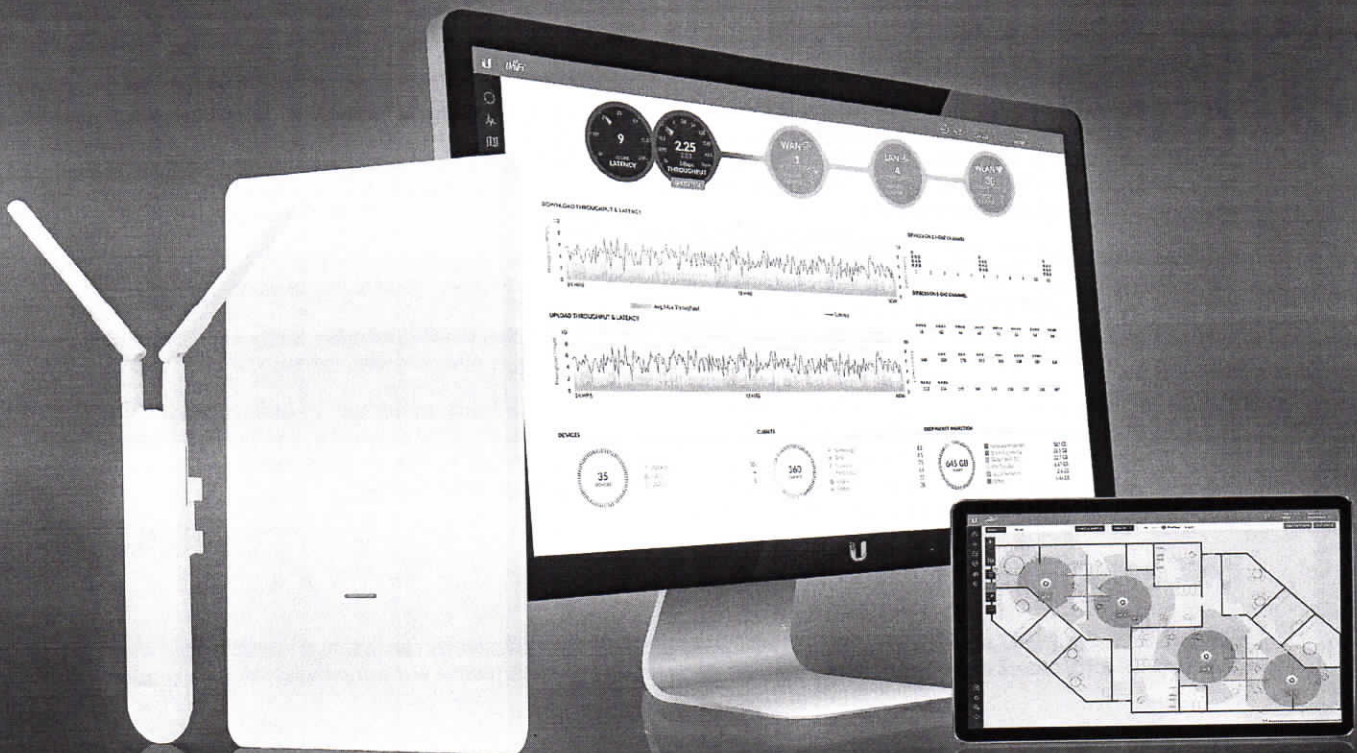
Passpoint® (Release 2)

Online Signup (OSU) and Policy Provisioning

Spectrum and Regulatory Features

802.11d
802.11h





UniFi[®] AC MESH

802.11AC AP with Plug & Play Mesh

Models: UAP-AC-M, UAP-AC-M-PRO

High-Performance Wide-Area Wi-Fi with UniFi[®] Mesh Technology

Breakthrough Speeds up to 1300 Mbps in the 5 GHz Band

802.3af PoE Compatibility





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.

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.

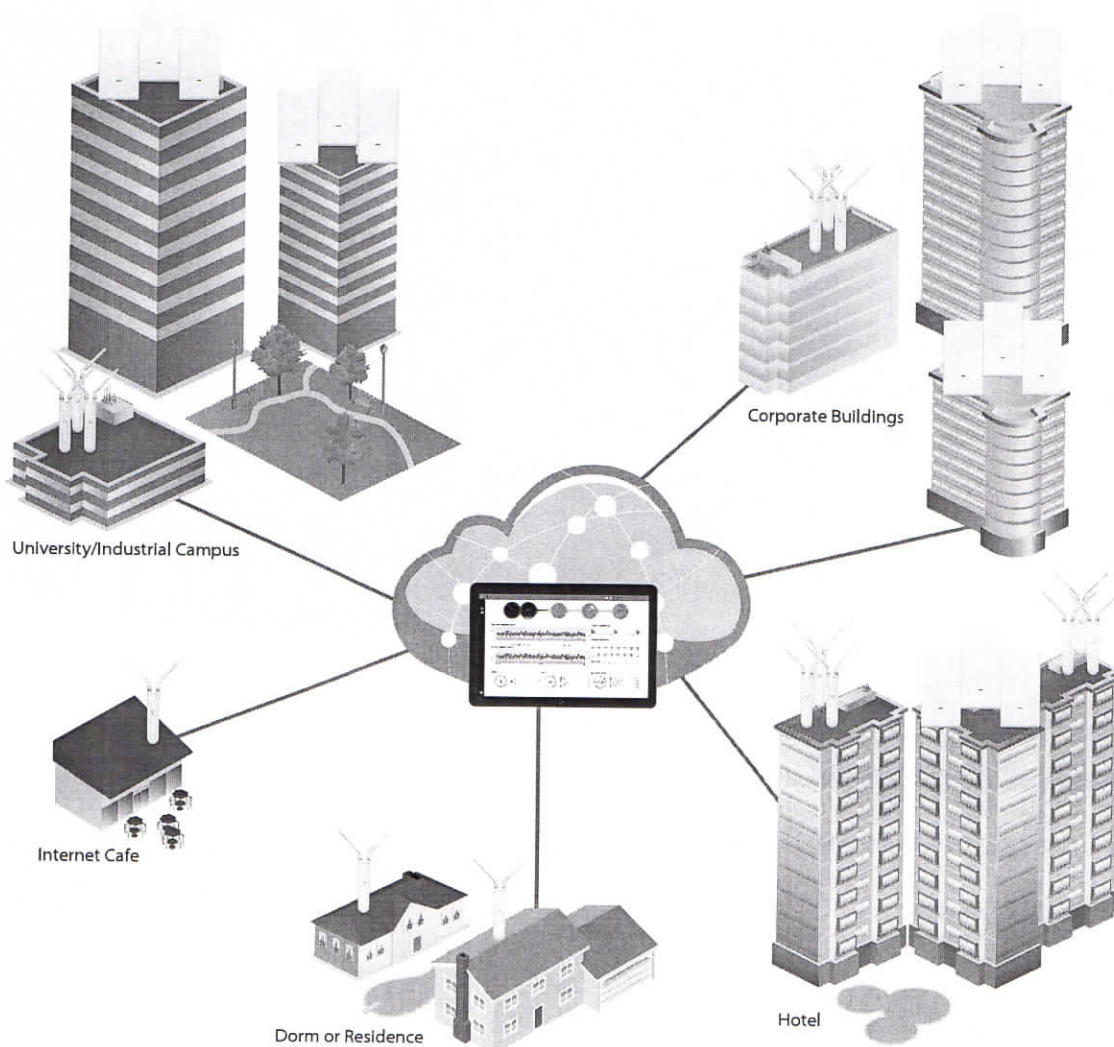
Powerful Hardware The UniFi AC Mesh APs feature Wi-Fi 802.11AC with Plug & Play Mesh technology.

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.

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

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:

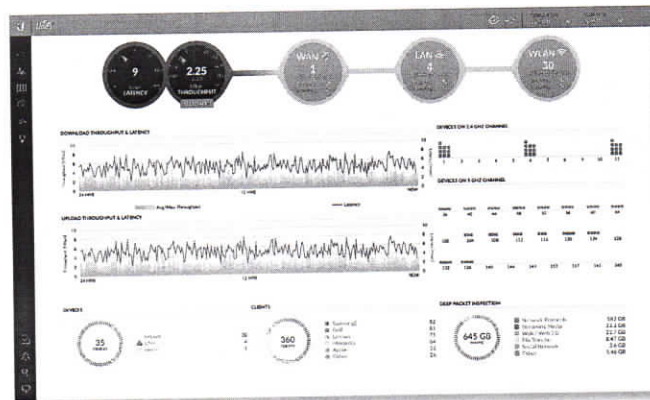
- Built-in support for billing integration using major credit cards.
- Built-in support for voucher-based authentication.
- Built-in Hotspot Manager for voucher creation, guest management, and payment refunds.
- Full customization and branding of Hotspot portal pages.

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.

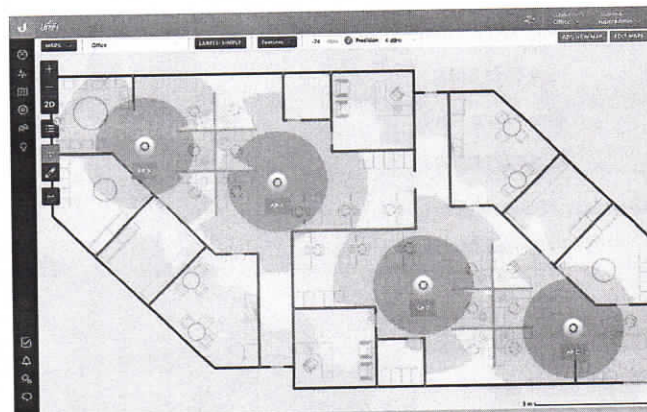
WLAN Groups

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



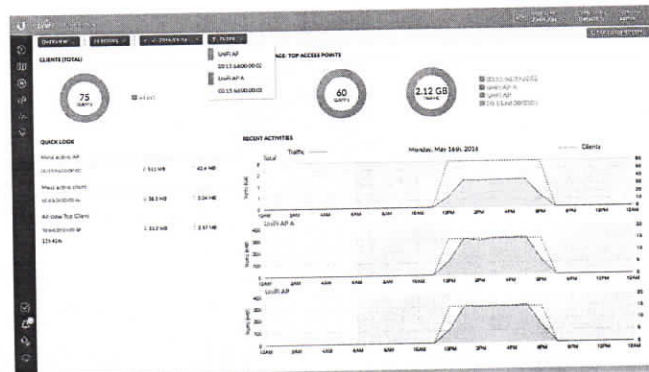
Dashboard

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

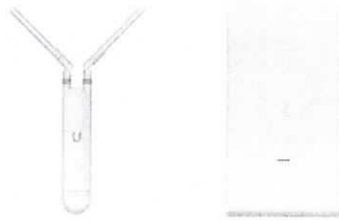
UniFi visualizes network traffic in clear and easy-to-read graphs.



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	3x3
5 GHz Radio Rate	867 Mbps	1300 Mbps
5 GHz MIMO	2x2	3x3
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.

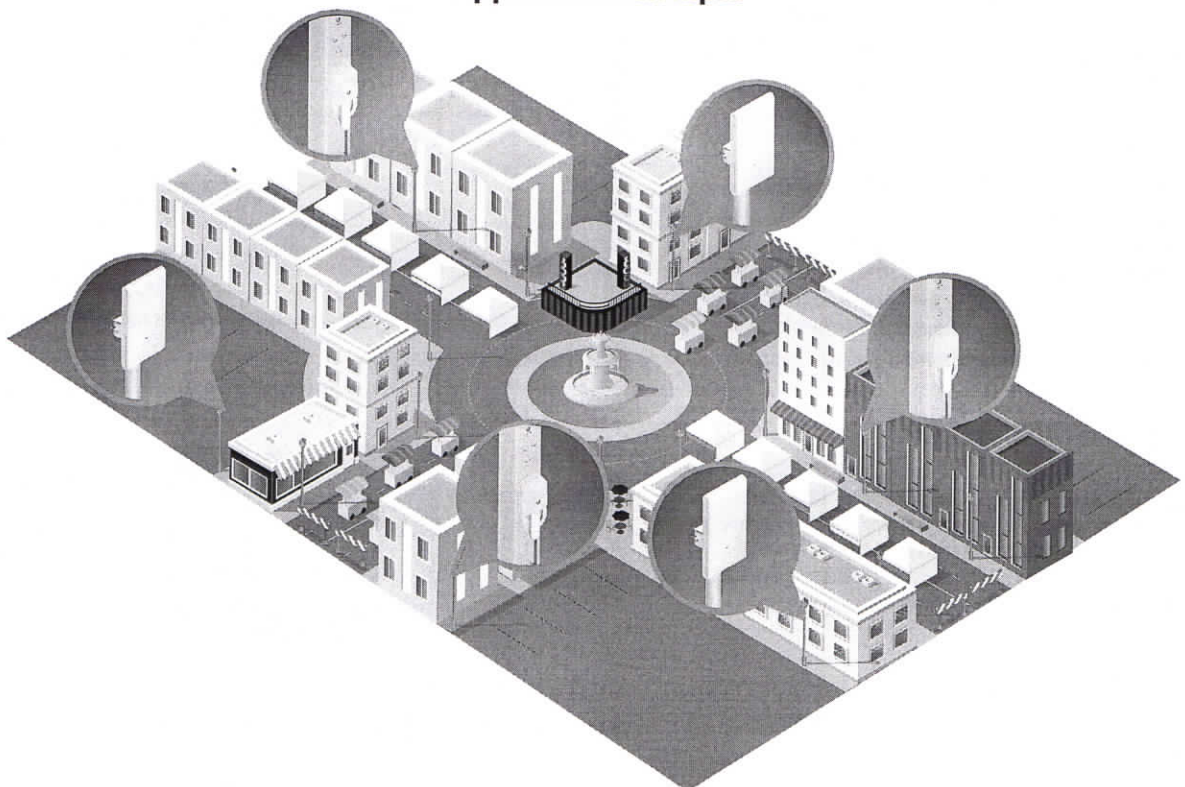
You have the option to use a 5 GHz sector antenna² (wide beam in the azimuth plane and narrow in the elevation plane) for broad outdoor coverage.

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.)

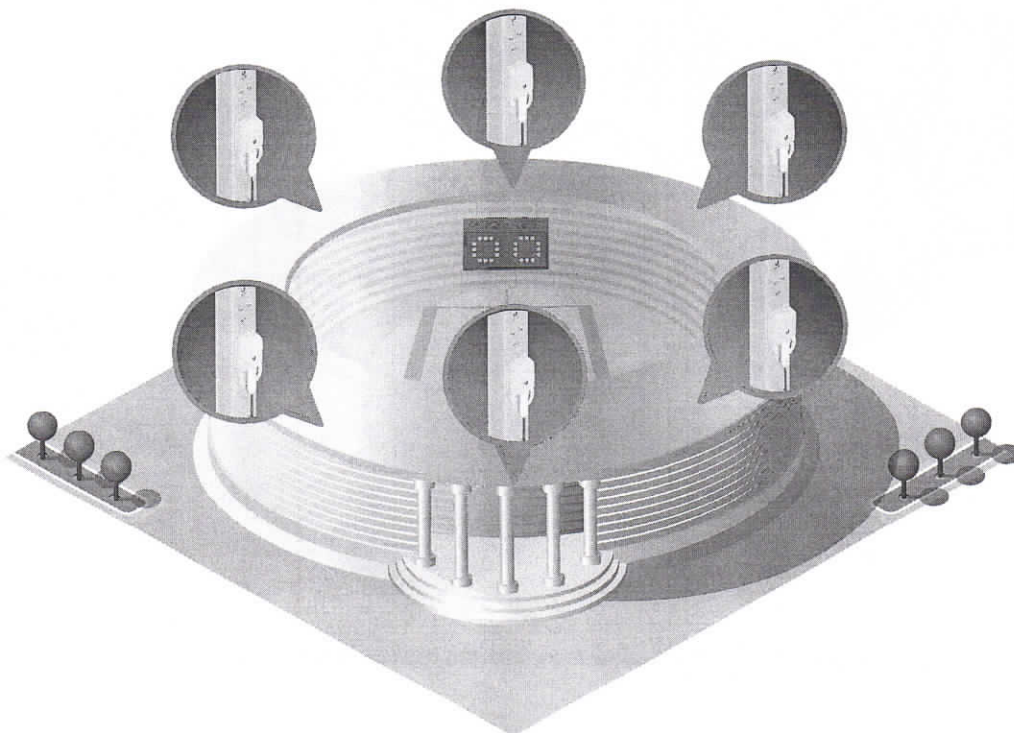
Multiple Power Options The UAP-AC-M is compatible with 802.3af PoE Alternative A and 24V passive PoE. You can power it with the included Gigabit PoE adapter¹ or an 802.3af Alternative A compatible switch, such as the UniFi PoE Switch or EdgePoint™ EP-R6.

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.

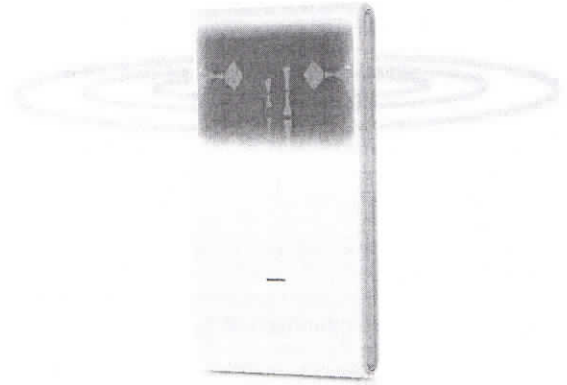
Powerful Coverage Built-in dual-band omnidirectional antennas deliver expanded range coverage outdoors.

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

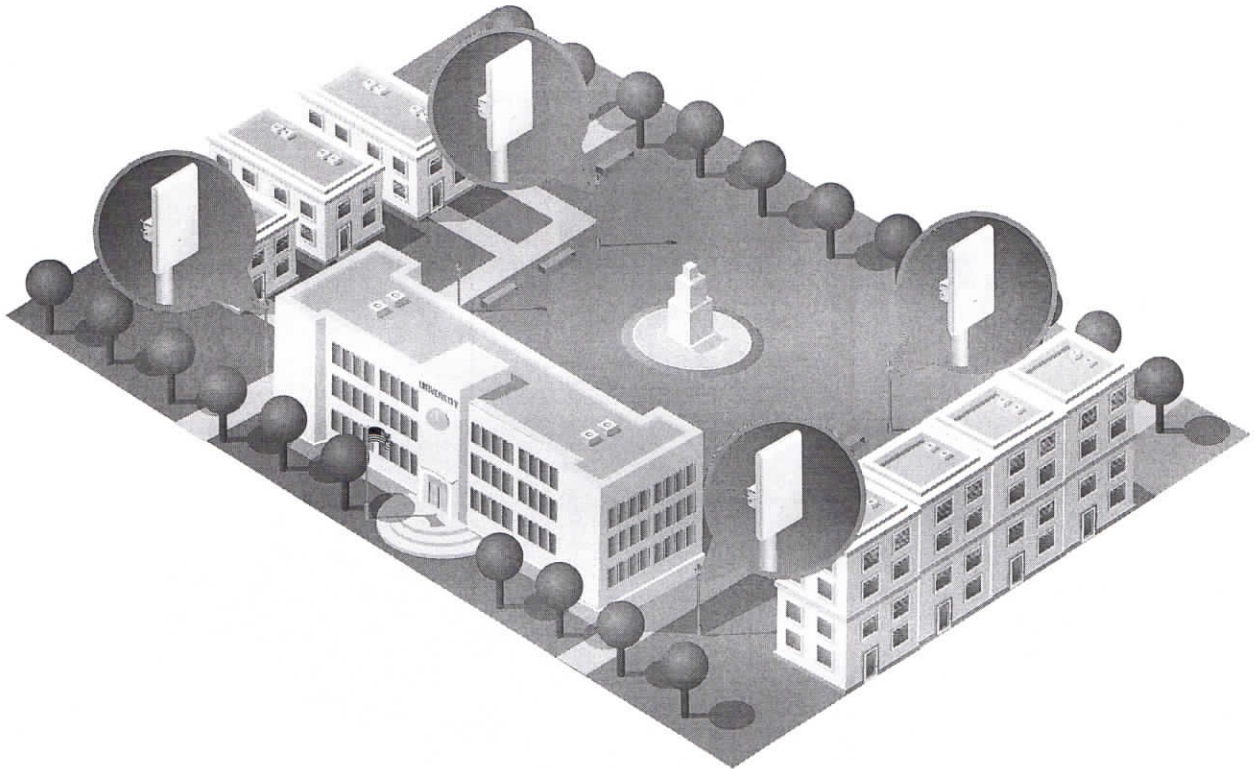
Dual Gigabit Ethernet Ports The primary port is for data and PoE; the secondary port is for bridging.

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

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

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)
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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

UniFi Switch Compatibility

The UniFi switches are compatible with UniFi Access Points and UniFi G3 Video Cameras, as detailed below.

AP/Camera Model	US-8	US-8-60W	US-8-150W	US-16-150W	US-24-250W	US-24-500W	US-48-500W	US-48-750W
UVC-G3			✓	✓	✓	✓	✓	✓
UVC-G3-AF	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-DOME	✓	✓	✓	✓	✓	✓	✓	✓
UAP			✓	✓	✓	✓	✓	✓
UAP-LR			✓	✓	✓	✓	✓	✓
UAP-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LITE	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LR	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW*	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW-PRO*	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-HD	-	-	✓	✓	✓	✓	✓	✓

✓ Compatible with the UniFi switch



Requires an Instant 802.3af Gigabit PoE Converter: INS-3AF-I-G  or INS-3AF-O-G 

Note:

* For the UAP-AC-IW and UAP-AC-IW-PRO, PoE passthrough is supported by all of the switches listed above except for models US-8 and US-8-60W.

Related Product Datasheets



UniFi Switch 8, UniFi Switch 8-60W:

dl.ubnt.com/datasheets/unifi/UniFi_Switch_8_DS.pdf

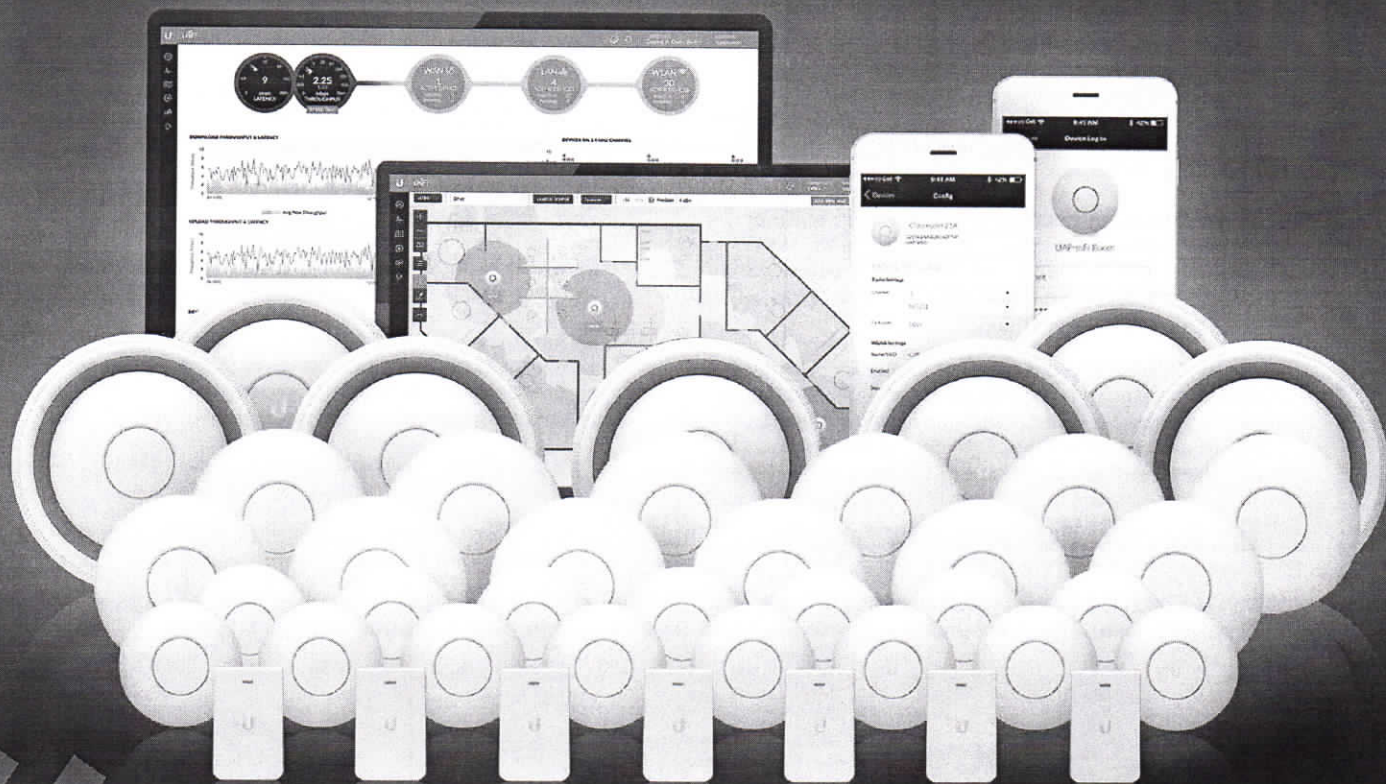


UniFi PoE Switches:

dl.ubnt.com/datasheets/unifi/UniFi_PoE_Switch.pdf

Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.ubnt.com/support/warranty
 The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.
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UniFi[®] AC

802.11AC Dual-Radio Access Points

Models: UAP-AC-IW, UAP-AC-IW-PRO, UAP-AC-LITE, UAP-AC-LR, UAP-AC-PRO, UAP-AC-EDU

Unlimited Indoor/Outdoor AP Scalability in a Unified Management System

Breakthrough Speeds up to 1300 Mbps in the 5 GHz Band

Intuitive UniFi Controller Software





Scalable Enterprise Wi-Fi Management

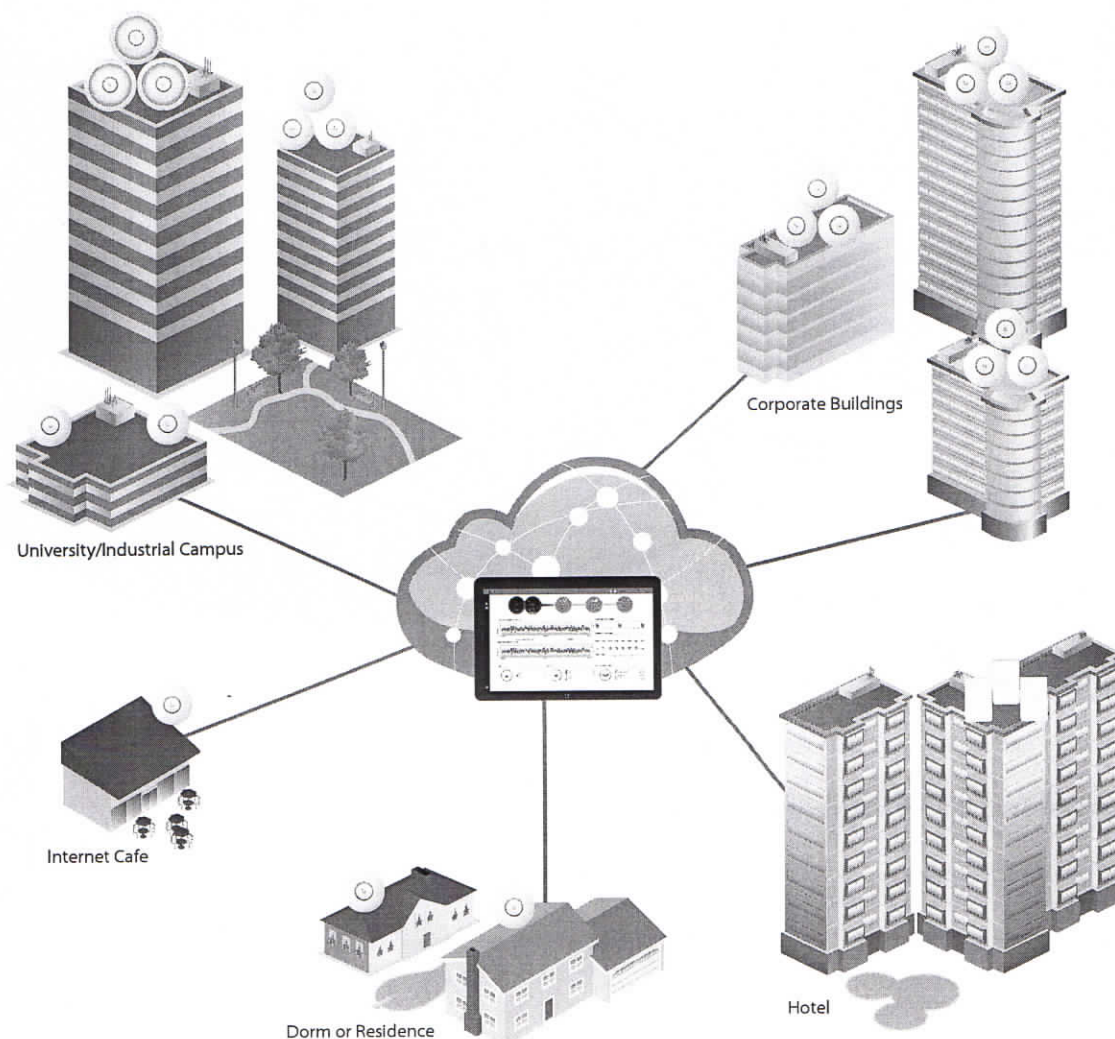
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Powerful Hardware The UniFi 802.11AC Dual-Radio APs feature the latest in Wi-Fi 802.11AC MIMO technology.

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

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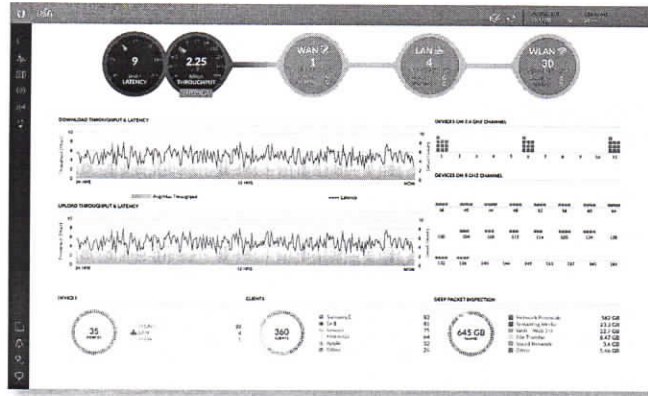
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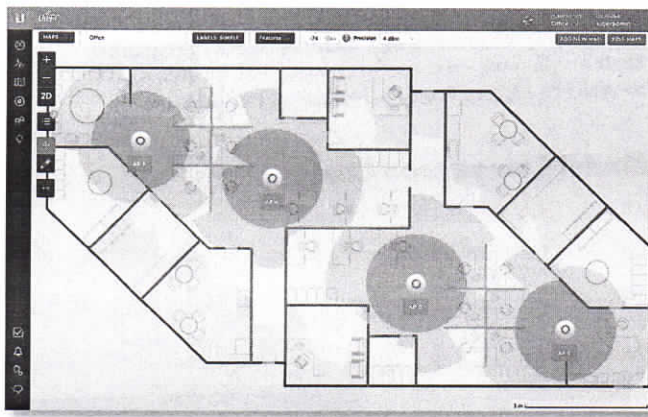
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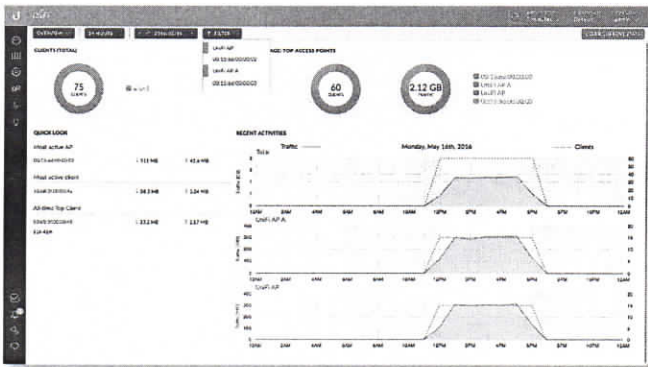
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UniFi Mobile App

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.

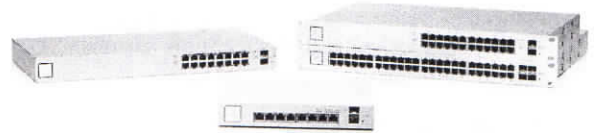
Designed for the Great Outdoors The UniFi AC Pro features weatherproof casing designed specifically for outdoor applications.

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
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	✓	✓	✓	✓	✓	✓



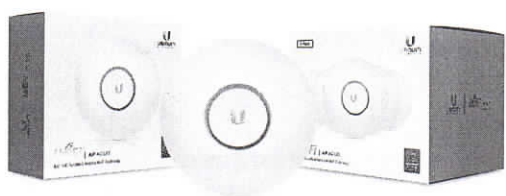
UAP-AC-IW

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.



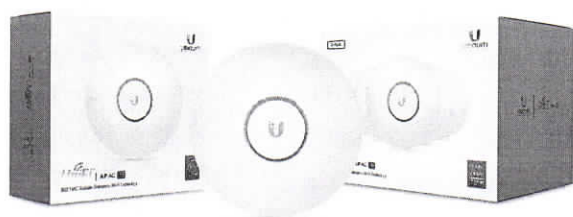
UAP-AC-IW-PRO

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.



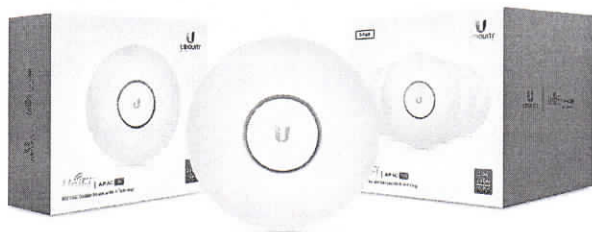
UAP-AC-LITE

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.



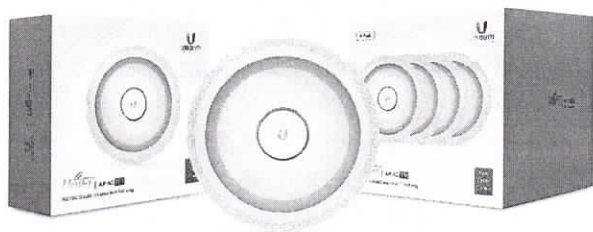
UAP-AC-LR

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.

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	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-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

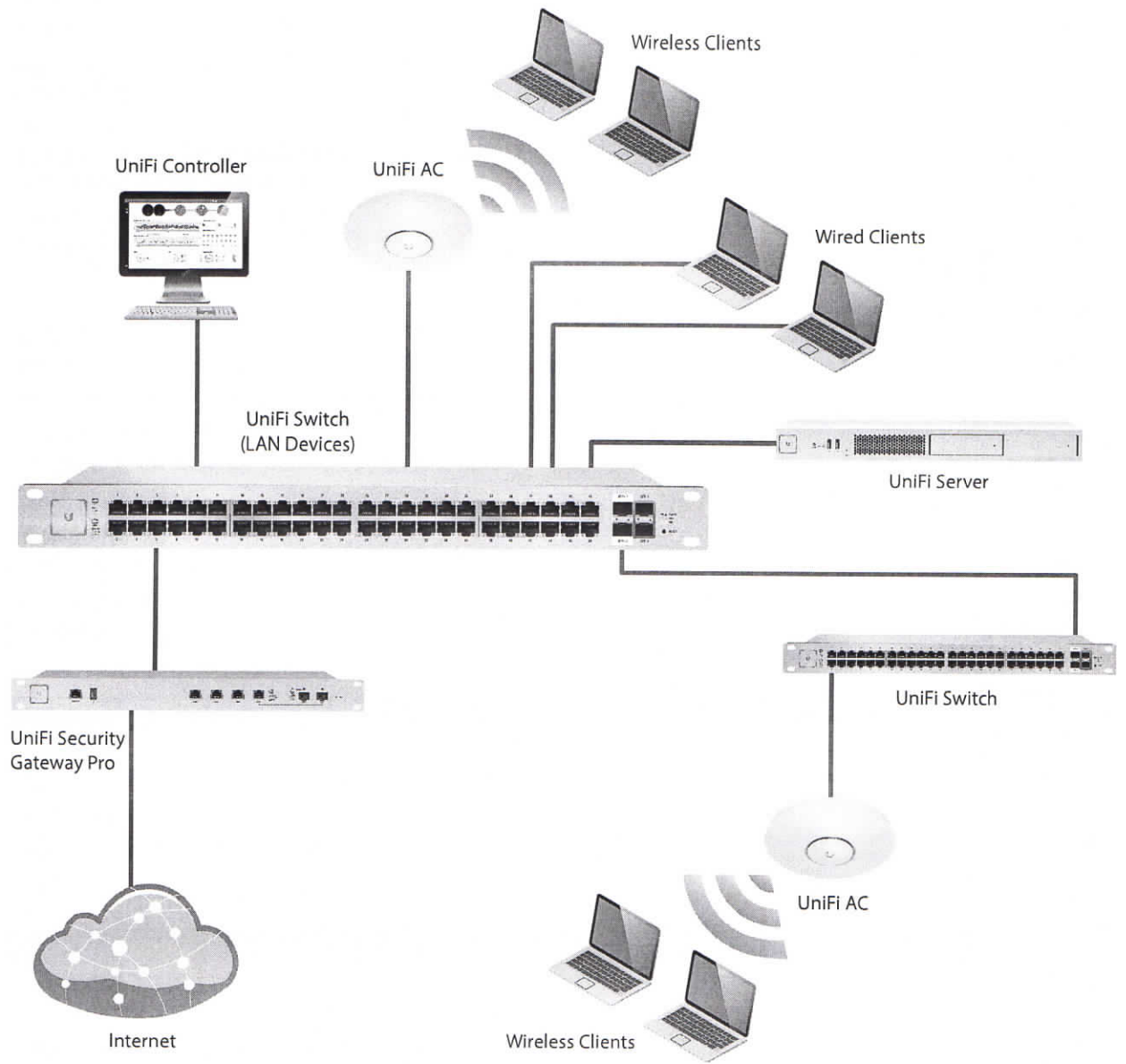
* Only the single-pack of the UAP-AC-EDU includes a PoE adapter.

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



UniFi Switch Compatibility

The UniFi switches are compatible with UniFi Access Points and UniFi G3 Video Cameras, as detailed below.

AP/Camera Model	US-8	US-8-60W	US-8-150W	US-16-150W	US-24-250W	US-24-500W	US-48-500W	US-48-750W
UVC-G3			✓	✓	✓	✓	✓	✓
UVC-G3-AF	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-DOME	✓	✓	✓	✓	✓	✓	✓	✓
UAP			✓	✓	✓	✓	✓	✓
UAP-LR			✓	✓	✓	✓	✓	✓
UAP-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LITE	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LR	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW*	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW-PRO*	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-HD	-	-	✓	✓	✓	✓	✓	✓

✓ Compatible with the UniFi switch



Requires Instant 802.3af Gigabit PoE Converter:  INS-3AF-I-G or  INS-3AF-O-G

Note:

* For the UAP-AC-IW and UAP-AC-IW-PRO, PoE passthrough is supported by all of the switches listed above except for models US-8 and US-8-60W.

Related Product Datasheets



UniFi Switch 8, UniFi Switch 8-60W:

dl.ubnt.com/datasheets/unifi/UniFi_Switch_8_DS.pdf

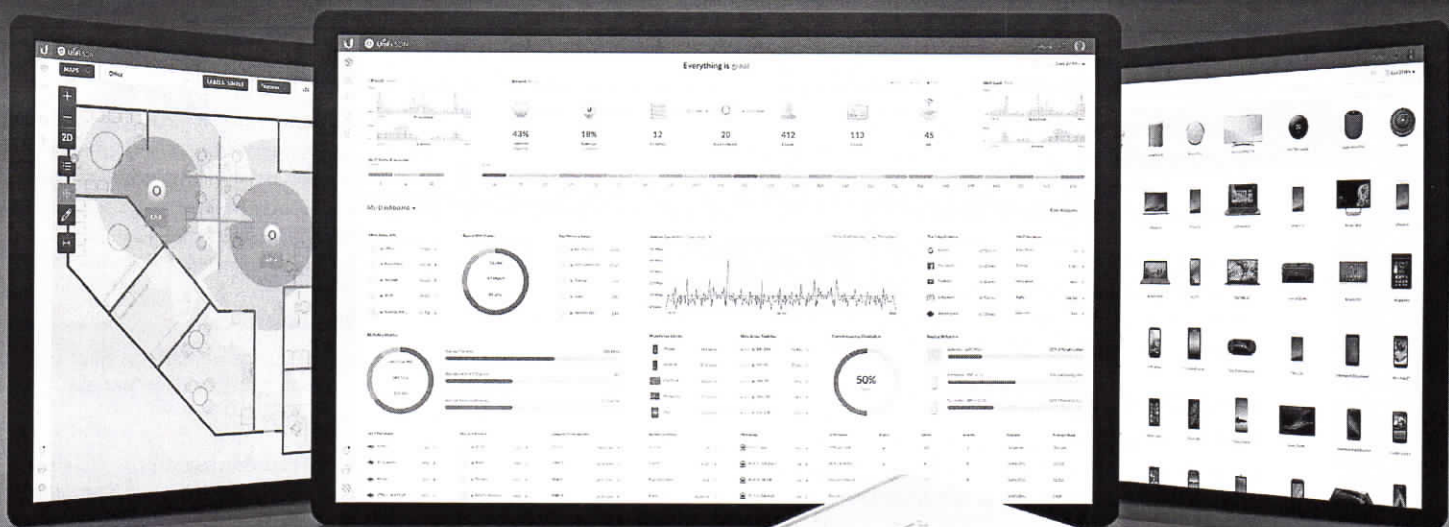


UniFi PoE Switches:

dl.ubnt.com/datasheets/unifi/UniFi_PoE_Switch.pdf

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UniFi® CLOUD KEY

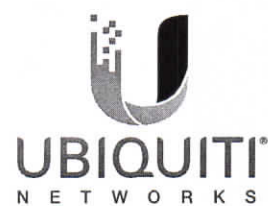
UniFi® Controller Hybrid Cloud

Model: UC-CK

Secure UniFi Hybrid Cloud Technology

Fully Integrated, Stand-Alone UniFi Controller Hardware

Remote, Private Cloud Access to the UniFi Controller



UniFi® CLOUD KEY

UniFi Controller with Hybrid Cloud

Big things do come in small packages. We took one of our biggest ideas and engineered it to fit into a tiny form factor. Introducing the UniFi Cloud Key, a miniaturized marvel of technology.

The UniFi Cloud Key is an integrated computer and software controller minus the bulk. It features a quad-core processor with 2 GB RAM, operating the latest version of the UniFi Controller with built-in hybrid cloud technology.

Breakthrough Efficiency

The UniFi Cloud Key is fully capable of configuring and managing dozens of UniFi devices in your deployment. Replacing a dedicated server or computer, the UniFi Cloud Key is an ultra-low energy solution with virtually no footprint.

Hybrid Cloud Technology

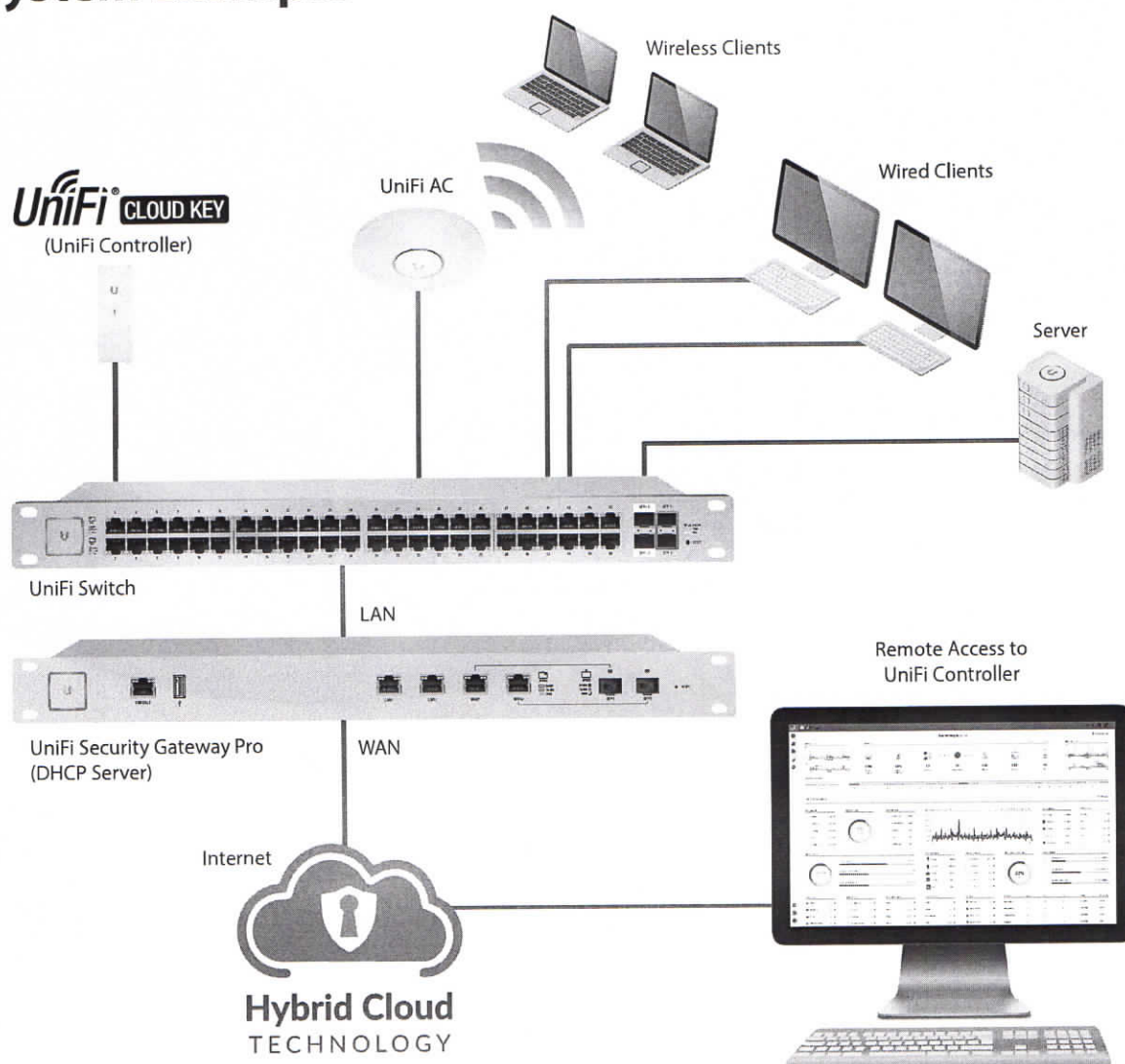
The Ubiquiti® hybrid cloud configuration provides a secure, private SSO (Single Sign-On) to access all of your UniFi deployments from anywhere in the world. With the Ubiquiti hybrid cloud, a third-party hosted cloud service is not required, so all of your personal data and network information remains local and secure—the way it should be.

Incredible, Agile Scalability

Add, provision, configure, monitor, and manage all of your UniFi devices, whether in one or thousands of private networks—all from a central control plane.

Easily accessible through any standard web browser, the UniFi Cloud Key is a powerful solution for managing your UniFi networks across the campus or across the globe.

System Example



UniFi Controller

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor UniFi devices using a graphical user interface. There is no separate software, licensing, hosting, or support fee.

Multi-Site Management

A UniFi Cloud Key installed at each deployment site provides an always-on, private UniFi cloud service. Every site is accessible through its assigned secure SSO. Each UniFi Cloud Key is independent with its own network monitoring, configuration, maps, statistics, and admin accounts.

Improved User Experience

Redesigned to be more intuitive and easier to navigate, the new UI raises the bar for enterprise network management efficiency. Important network details are logically organized for a simplified, yet powerful, interface.

Network Overview

A comprehensive overview of your network health is readily available in the new dashboard. Monitor your network's vitals and make on-the-fly adjustments as needed.

Detailed Analytics

Use the configurable reporting and analytics to monitor large user groups and expedite troubleshooting.

LAN/WLAN Groups

The UniFi Controller can manage flexible configurations of large deployments. Create multiple LAN and WLAN groups and assign them to the respective UniFi devices.

Wi-Fi Management

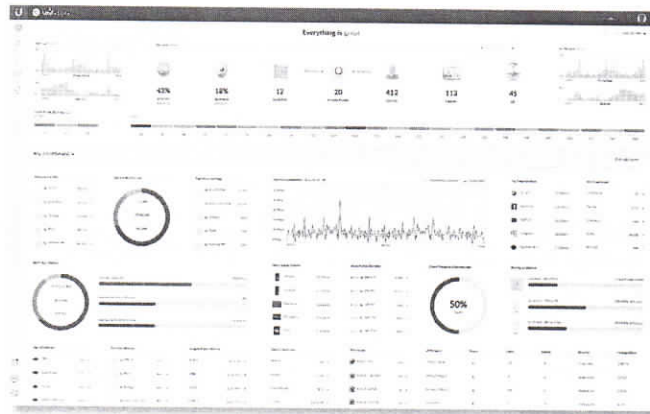
Use the UniFi Controller to provision UniFi APs, configure wireless networks, map out networks, and quickly manage system traffic. Powerful Wi-Fi management features include:

- RF monitoring and device mapping
- Detailed RF performance analysis
- Band steering support
- Guest portal/hotspot support

Router and Switch Management

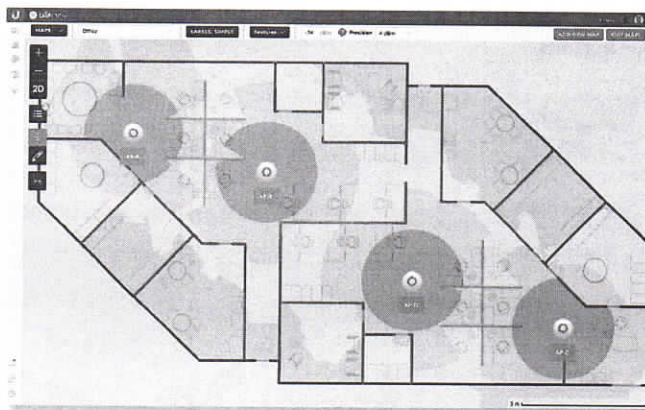
Use the UniFi Controller to provision UniFi Security Gateways and Switches. Configure a variety of features:

- WAN/LAN/VLAN configuration
- Operation mode (switching, mirroring, or aggregate) per port
- PoE setting per port (device dependent)
- Jumbo frame and flow control services
- Monitor and analyze performance of each port



Dashboard

UniFi provides a visual representation and status information about different aspects of your network.



Wi-Fi RF Map

Monitor UniFi APs and analyze the surrounding RF environment.



Insights

UniFi displays the client types for a specific time period.

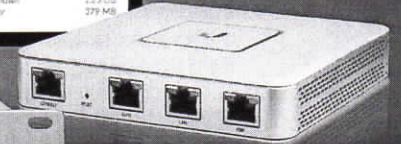
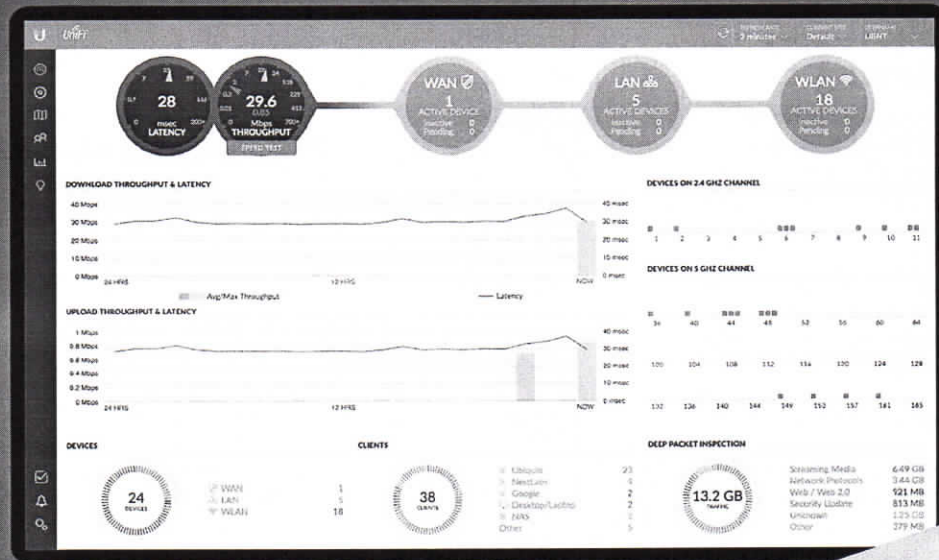
Specifications

UniFi Cloud Key	
Dimensions	21.7 x 43.4 x 121.9 mm (0.85 x 1.71 x 4.80")
Weight	110 g (3.88 oz)
Processor	Quad-Core SoC
Memory	2 GB DDR
Internal Storage	16 GB
Networking Interface	(1) 10/100/1000 Ethernet Port
Buttons	(1) Reset to Defaults Shutdown
Power Method PoE	48V 802.3af or Passive PoE (Pairs 4, 5+; 7, 8 Return)
USB Type C	5V
Power Supply	802.3af PoE or USB-C 5V, Minimum 1A
Max. Power Consumption	5W
Operating Temperature	0 to 40° C (32 to 104° F)
Operating Humidity	20 to 90% Noncondensing
Certifications	CE, FCC, IC



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UniFi® | SECURITY GATEWAY

Enterprise Gateway Router with Gigabit Ethernet

Models: USG, USG-PRO-4

Advanced Security, Monitoring, and Management

Sophisticated Routing Features

Integrated with UniFi® Controller Software



UniFi® SECURITY GATEWAY

Affordable Enterprise Network Security

Ubiquiti Networks introduces the UniFi® Security Gateway, which extends the UniFi Enterprise System to encompass routing and security for your network.

The UniFi Security Gateway combines reliable security features with high-performance routing technology in a cost-effective unit.

Two models are available:

- **USG-PRO-4** Rack-mountable form factor with fiber connectivity options and a dual-core, 1 GHz processor for maximum hardware-accelerated performance.
- **USG** Wall-mountable form factor with a dual-core, 500 MHz processor for standard hardware-accelerated performance.

Powerful Firewall Performance

The UniFi Security Gateway offers advanced firewall policies to protect your network and its data.

Convenient VLAN Support

The UniFi Security Gateway can create virtual network segments for security and network traffic management.

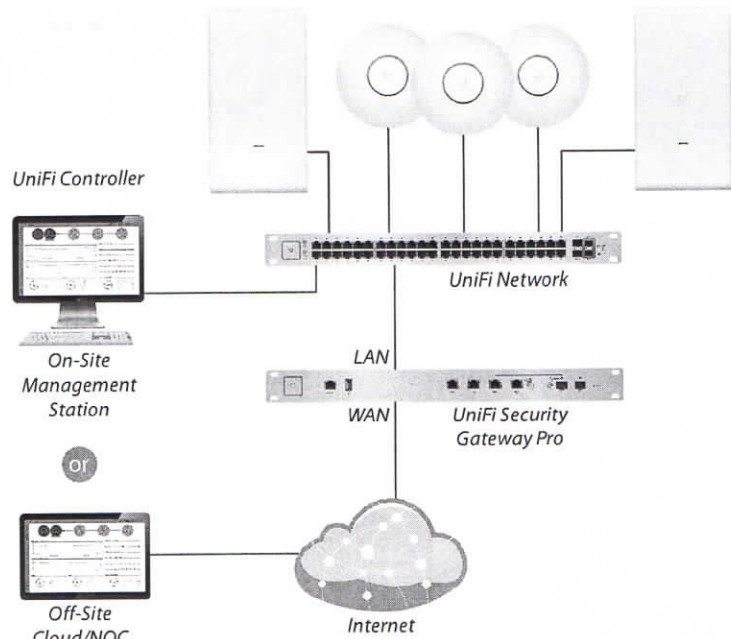
VPN Server for Secure Communications

A site-to-site VPN secures and encrypts private data communications traveling over the Internet.

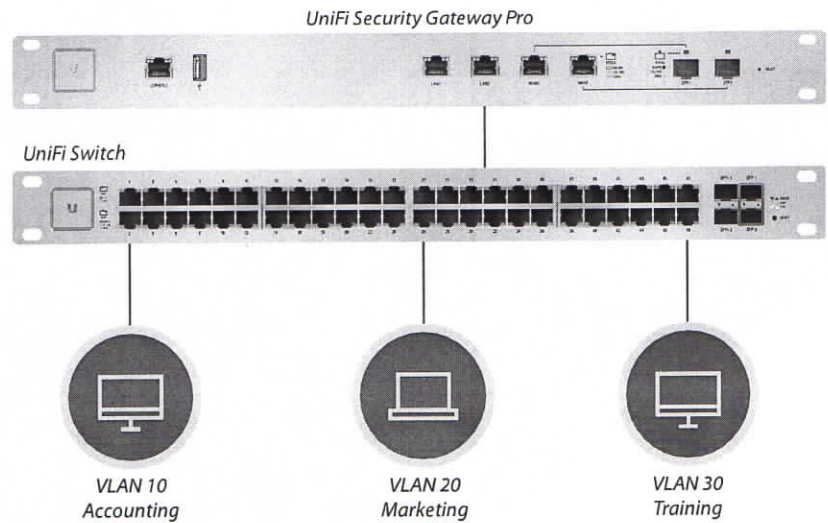
QoS for Enterprise VoIP and Video

Top QoS priority is assigned to voice and video traffic for clear calls and lag-free, video streaming.

The UniFi Security Gateway is deployed in the same manner as UniFi Access Points for wireless networking. Use the intuitive UniFi Controller to conduct device detection, provisioning, and management.



Example of a UniFi Enterprise System



Network Segmentation with VLAN



Site-to-Site VPN Tunnel

UniFi Controller

Introducing the new UniFi Controller software featuring a refreshed UI and support for the next generation of UniFi devices.

Improved User Experience

Redesigned to be more intuitive and easier to navigate, the new UI raises the bar for enterprise network management efficiency. Important network details are logically organized for a simplified, yet powerful, interface.

Packed with Features

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

Network Overview

A comprehensive overview of your Network Health is readily available in the new dashboard. Monitor your network's vitals and make on-the-fly adjustments as needed.

Detailed Analytics

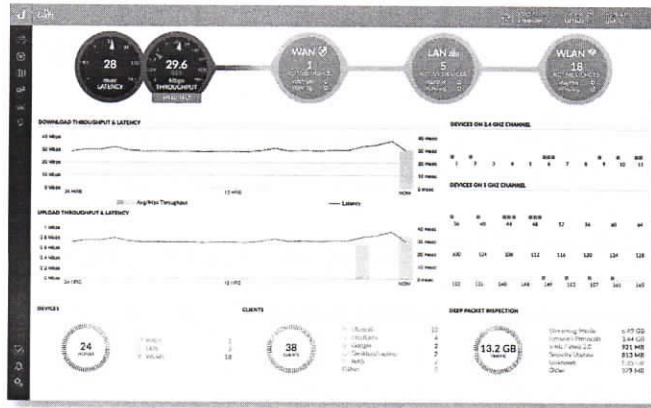
Use the configurable reporting and analytics to monitor large user groups and expedite troubleshooting. Advanced search and sorting capabilities make network management more efficient.

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.

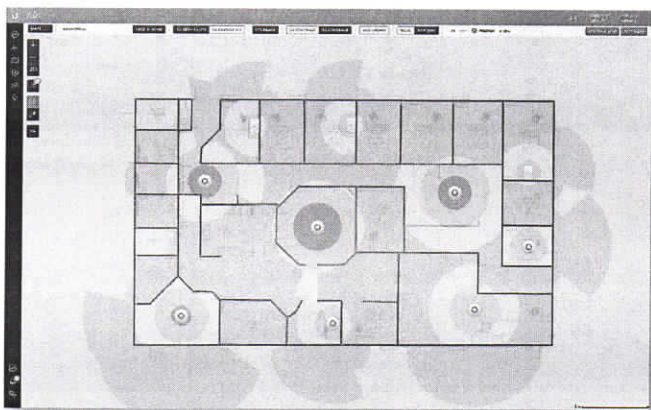
LAN/WLAN Groups

The UniFi Controller can manage flexible configurations of large deployments. Create multiple LAN and WLAN groups and assign them to the respective UniFi devices.



Dashboard

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



Maps

Upload a map of your location(s) or use Google Maps to represent the areas where your UniFi devices are located. Starting with v5.6.x, you can also use the predictive map feature to get a preview of coverage, so you can help avoid dead spots.

The Device Configuration screen displays a list of UniFi devices discovered by the controller. The table includes columns for device name, IP address, status, model, version, and settings. The devices listed include UniFi Security Gateways, UniFi Switches, UniFi Access Points, and UniFi Cloud Keys. The interface also shows a map view of the devices and a search bar.

Device Configuration

The *Devices* screen displays a list of UniFi devices discovered by the UniFi Controller. You can access each managed device for device details and configuration.

UniFi SECURITY GATEWAY PRO

Model: USG-PRO-4

The USG-PRO-4 offers optional SFP ports for fiber connectivity to support backhaul applications.

- (2) 10/100/1000 RJ45 LAN Ports
- (2) 1 Gbps RJ45/SFP Combination WAN Ports*
- (1) RJ45 Serial Console Port
- Rack-Mounting Capability
- Layer 3 Forwarding Performance
- Packet Size of 64 Bytes: 2,400,000 pps
- Packet Size of 512 Bytes or Larger: 4 Gbps (Line Rate)

* The USG-PRO-4 WAN port, as a result of being a combination SFP/GigE port, is a pure 1 Gbps port – It is incapable of both 10 Mbps and 100 Mbps FDXX/HDX settings.



Front Panel



Back Panel

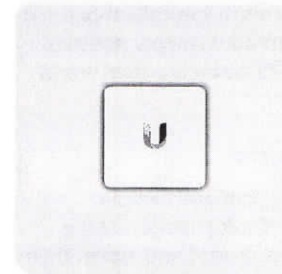
UniFi SECURITY GATEWAY

Model: USG

The USG features a compact form factor and fanless operation for discreet integration.

- (3) 10/100/1000 RJ45 Ports*
- (1) RJ45 Serial Console Port
- Quiet, Fanless Operation
- Wall-Mounting Capability
- Layer 3 Forwarding Performance
 - Packet Size of 64 Bytes: 1,000,000 pps
 - Packet Size of 512 Bytes or Larger: 3 Gbps (Line Rate)

* VOIP port is available for port remapping in UniFi v5.



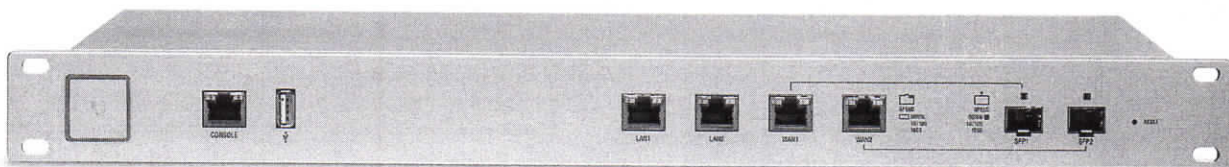
Top Panel



Front Panel

Specifications

UniFi USG-PRO-4	
Dimensions	484 x 44 x 164 mm (19.06 x 1.73 x 6.46")
Weight	2.3 kg (5.07 lb)
Max. Power Consumption	40W
Power Supply	Internal AC/DC Power Adapter, 60W (24V, 2.5A)
Power Input	110 - 240VAC
LEDs	Status
System	Speed/Link/Activity
Data Ports	
Networking Interfaces	
Serial Console Port	(1) RJ45 Serial Port
Data Ports	(2) 10/100/1000 RJ45 LAN Ports (2) 1 Gbps RJ45/SFP Combination WAN Ports
Layer 3 Forwarding Performance	
Packet Size: 64 Bytes	2,400,000 pps
Packet Size: 512 Bytes or Larger	4 Gbps (Line Rate)
Processor	Dual-Core 1 GHz, MIPS64 with Hardware Acceleration for Packet Processing
System Memory	2 GB DDR3 RAM
On-Board Flash Storage	4 GB
Certifications	CE, FCC, IC
Rackmount	Yes
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 to 90% Noncondensing





Specifications

UniFi USG	
Dimensions	135 x 135 x 28.3 mm (5.32 x 5.32 x 1.11")
Weight	366 g (12.9 oz)
Max. Power Consumption	7W
Power Supply	12VDC, 1A Power Adapter (Included)
Power Input	9 to 24VDC, Supported Voltage Range
LEDs	Status
System	Power
Serial Console Port	Speed/Link/Activity
Data Ports	
Networking Interfaces	
Serial Console Port	(1) RJ45 Serial Port
Data Ports	(3) 10/100/1000 Ethernet Ports*
Layer 3 Forwarding Performance	
Packet Size: 64 Bytes	1,000,000 pps
Packet Size: 512 Bytes or Larger	3 Gbps (Line Rate)
Processor	Dual-Core 500 MHz, MIPS64 with Hardware Acceleration for Packet Processing
System Memory	512 MB DDR2 RAM
On-Board Flash Storage	2 GB
Certifications	CE, FCC, IC
Wall-Mountable	Yes
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 to 90% Noncondensing

* VOIP port is available for port remapping in UniFi v5.



Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.ubnt.com/support/warranty
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