



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

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Dell
Lenevo
Motorcla
Apple
Other

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360 GINS 645 GB

Breakthrough Speeds up to 1300 Mbps in the 5 GHz Band

802.3af PoE Compatibility





#### Scalable Enterprise Wi-Fi Management

UniFi<sup>®</sup> 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 highdensity 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**

#### Features

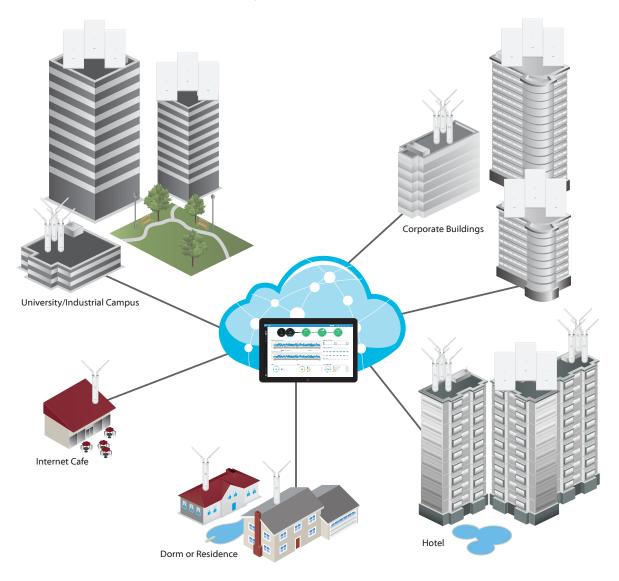
**Save Money and Save Time** UniFi comes bundled with a non-dedicated software controller that can be deployed on an on-site PC, Mac, or Linux machine; in a private cloud; or using a public cloud service. You also have the option of using the UniFi Cloud Key with built-in software.

**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.

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.



## Datasheet

## 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.

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#### UniFi Mobile App

Manage your UniFi devices from your smartphone or tablet.

### **Model Comparison**



Enviro Simultaneous Dua 2.4 GHz Rad 2.4 GHz 5 GHz Rad 5 GHz Secondary Ethern PoE

Wall Pole Fast

	UAP-AC-M	UAP-AC-M-PRO
onment	Indoor/Outdoor	Outdoor
al-Band	$\checkmark$	
lio Rate	300 Mbps	450 Mbps
z MIMO	2x2	3 x 3
lio Rate	867 Mbps	1300 Mbps
z MIMO	2x2	3 x 3
net Port		
E Mode	24V Passive PoE 802.3af PoE: Alternative A	802.3af PoE
Mount		
Mount		
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 antenna<sup>1</sup> for spot-beam coverage in high-density locations with numerous APs and clients, like a conference hall or event center.

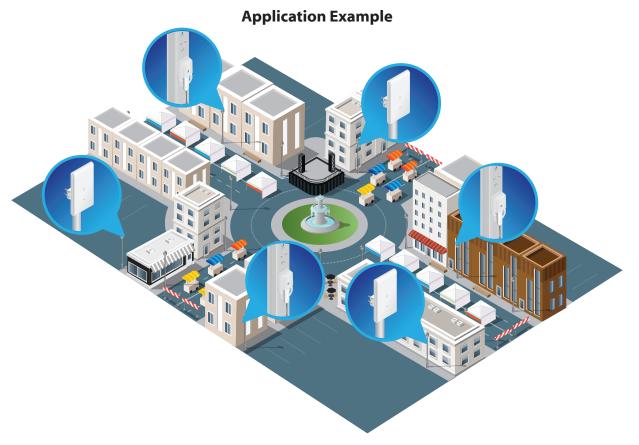
Directional Coverage, Outdoors The UAP-AC-M is versatile.

You have the option to use a 5 GHz sector antenna<sup>2</sup> (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 guick setup and takedown, such as a street fair, music festival, or concert venue.

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



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

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## **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.

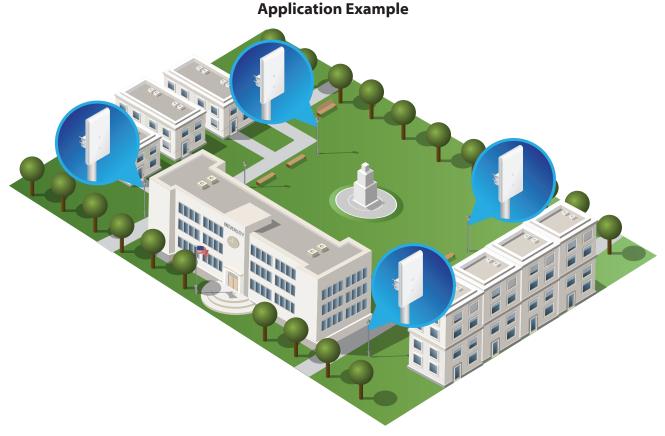
**Mounting Flexibility** The UAP-AC-M-PRO can be mounted on a wall or pole. (All accessories are included.)

**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.





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

# Datasheet

## **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 5 GHz	22 dBm 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
	* Onlyska single park of the UAD AC M DDO includes a DaE adapte

 $^{\ast}$   $\,$  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	

**UNIFI AG** MESH