U6-Mesh

UniFi 6 Mesh

The U6-Mesh is a four-stream Wi-Fi 6 access point that delivers up to 2.7 Gbps aggregate radio rate with 5 GHz (MU-MIMO and OFDMA) and 2.4 GHz (MIMO) radios. It can be placed on a desktop or mounted on a pole, wall, or ceiling*. The modern yet discreet design allows placement near users for optimal performance. The U6-Mesh shares its form factor with the UAP-FlexHD, so U6-Mesh can use FlexHD mounting accessories.

* Ceiling mount sold separately.

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Mechanical

Dimensions	Ø48.5 x 159.5 mm (Ø1.9 x 6.3")
Weight	Without Mount: 350 g (12.4 oz) With Wall Mount: With Pole Mount: ! Please provide weight with mounts !
Enclosure Materials	Aluminum, Polycarbonate
Mounting Materials	Wall Mount: Polycarbonate Pole Mount: ?
Weatherproofing	IP65

Hardware

Processor Specs	880 MHz MIPS 1004 KEc
Memory Information	2 GB DDR3 SDRAM
Management Interface	Ethernet In-Band
Networking Interface	(1) 10/100/1000 Mbps Ethernet RJ45
Buttons	Reset
LEDs	White/Blue
Power Method	802.3af PoE, Passive PoE (48V)
Power Supply	802.3af PoE; 48V, 0.32A PoE Adapter ! Please confirm this !
Supported Voltage Range	44 to 57VDC
Max. Power Consumption	15W
Max. TX Power	

2.4 GHz	23 dBm
5 GHz	26 dBm

MIMO	2.4 GHz	2 x 2
	5 GHz	4 x 4
Throughput Speeds	2.4 GHz	300 Mbps
	5 GHz	2402 Mbps
Antenna Gain	2.4 GHz	3 dBi
	5 GHz	6 dBi
	Bluetooth	3 dBi ! Please confirm this !
	DFS	0 dBi ! Remove this line? !

Mounting	Wall/Pole (Kits Included) Ceiling (Sold Separately)
Operating Temperature	-10 to 60° C (14 to 140° F)
Operating Humidity	5 - 95% Noncondensing
Certifications	CE, FCC, IC

Software

Wi-Fi Standards	802.11a/b/g Wi-Fi 4/Wi-Fi 5/Wi-Fi 6

Wireless Security	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)
BSSID	8 per Radio
VLAN	802.1Q
Advanced QoS	Per-User Rate Limiting
Guest Traffic Isolation	Supported
Concurrent Clients	300+

Supported Data Rates (Mbps)

802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n (Wi-Fi 4)	6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)
802.11b	1, 2, 5.5, 11 Mbps
802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11ac (Wi-Fi 5)	6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)

802.11ax (Wi-Fi 6)	7.3 Mbps to 2.4 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)

E-label and warning statements can be found in the device/controller GUI under Device > Settings > About.

Detailed compliance information including Declaration of Conformity is available at the following internet address: ui.com/compliance

FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

The following apply to Class A products

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The following apply to Class B products

"This equipment has been tested and found to comply with the limits for a Class B digital device. These limits are

designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate

radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio

or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by

one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help."

ISED Canada

CAN ICES-3(A/B)/NMB-3(A/B)

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-3(A/B)/NMB-3(A/B)

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour ce transmetteur doivent être installé en considérant une distance de séparation de toute personnes d'au moins 20 cm et ne doivent pas être localisé ou utilisé en conflit avec tout autre antenne ou transmetteur.