

UniFi U6 Mesh DATASHEET

Overview

The UniFi U6 Mesh is a high-performance indoor/outdoor WiFi 6 access point designed for mesh networks. It supports 6 spatial streams delivering up to 4.8 Gbps on the 5 GHz band and 573.5 Mbps on the 2.4 GHz band, covering an area of 140 m² and supporting over 300 clients simultaneously. The device features a weatherproof IPX5-rated enclosure, flexible mounting options, and is powered via PoE with low power consumption (max 11.4W). Managed through UniFi Network software, the U6 Mesh offers scalable, reliable wireless coverage with advanced features such as MU-MIMO and band steering for optimal performance in dense environments.

QUICK SPEC

FIGURE 1: APPEARANCE OF UniFi U6 Mesh



TABLE 1: QUICK SPECS OF U6 IW

SKU	U6-Mesh
Description	U6 Mesh is a dual-band WiFi 6 (802.11ax) access point
Dimensions	Ø48.5 x 159.5 mm (Ø1.9 x 6.3")
Antenna	5 GHz - 5 dBi 2.4 GHz - 3 dBi

Product Details

FIGURE 2: FRONT PANEL OF U6 Mesh



FIGURE 3: BACK PANEL OF U6 Mesh





U6 Mesh has these features :

1. WiFi 6 Technology (802.11ax)

The U6 Mesh supports the latest WiFi 6 standard, which offers faster speeds, higher network capacity, and improved efficiency, especially in environments with many connected devices. It uses OFDMA and MU-MIMO technologies to deliver concurrent data streams and reduce latency.

2.6 Spatial Streams (4x4 MU-MIMO on 5 GHz, 2x2 MU-MIMO on 2.4 GHz)

This enables the device to send and receive multiple data signals simultaneously, maximizing throughput and ensuring smooth connectivity for many users at once, ideal for dense settings like offices or public spaces.

3. High Data Rates

This AP delivers up to 4.8 Gbps on the 5 GHz band and 573.5 Mbps on the 2.4 GHz band, supporting bandwidth-intensive applications such as video streaming, gaming, and large file transfers with minimal lag.

4. Weatherproof Design (IPX5 Rated)

This AP is built to withstand harsh outdoor conditions including rain and dust, it is suitable for both indoor and outdoor deployments. This rugged design ensures durability and continuous performance in various environments.

5. PoE Powered with Flexible Mounting

This AP is powered by Power over Ethernet (PoE), the U6 Mesh simplifies installation by requiring only a single cable for power and data. It supports wall, pole, and desktop mounting, providing versatile deployment options.



SPECIFICATION

U6-Mesh Technical Specification	
Model	U6-Mesh
Dimensions	Ø48.5 x 159.5 mm (Ø1.9 x 6.3")
WiFi Standard	WiFi 6
Weatherproofing	IPX5
Coverage Area	140 m ² (1,500 ft ²)
Max. Client Count	300+
Uplink	GbE
Mounting	Wall, Pole (Mounts Included)
Power Method	PoE
MIMO	5 GHz - 4 x 4 (DL/UL MU-MIMO) 2.4 GHz - 2 x 2 (DL/UL MU-MIMO)
Max. Data Rate	5 GHz - 4.8 Gbps (BW160) 2.4 GHz - 573.5 Mbps (BW40)
Antenna Gain	5 GHz - 5 dBi 2.4 GHz - 3 dBi
Max. TX Power	5 GHz - 26 dBm 2.4 GHz - 22 dBm
Max. BSSIDs	8 per Radio
Max. Power Consumption	13W
Networking Interface	(1) GbE RJ45 port
Weight	400 g (14.1 oz)
Management	Ethernet
Supported Voltage Range	44–57V DC
Enclosure Material	Polycarbonate, aluminum
Mount Material	Polycarbonate
LEDs	White/Blue
Channel Bandwidth	HT 20/40, VHT 20/40/80/160, HE 20/40/80/160 (MHz)
Ambient Operating Temperature	-30 to 60° C (-22 to 140° F)
Ambient Operating Humidity	5 to 95% noncondensing
NDAA Compliant	Yes
Certifications	CE, FCC, IC, Anatel, SRRC



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