



UniFi UISP Branding

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Switching

WiFi

Physical Security

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Integrations

Advanced Hosting

Outdoor > U7 Mesh



U7 Mesh

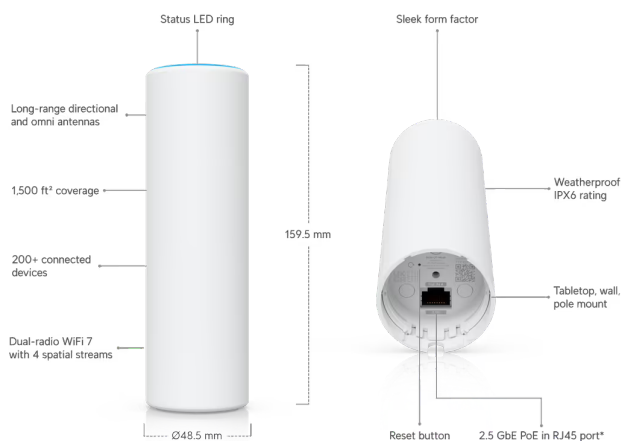
U7-Mesh

Datasheet

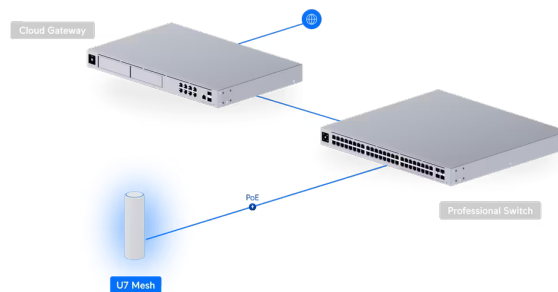
In The Box

Marketing Images

Installation Guide



*48V DC, 0.32A GbE PoE adapter included.



^ Overview

Dimensions	Ø48.5 x 159.5 mm (Ø1.9 x 6.3")
WiFi Standard	WiFi 7
Spatial Streams	4
Coverage Area	140 m ² (1,500 ft ²)
Max. Client Count	200+
Uplink	2.5 GbE ⓘ
Mounting	Wall, Pole, Table stand (Mounts included)
Weatherproofing	IPX6 (Installed with the outdoor mount)
Power Method	PoE

^ **Performance**

MIMO

5 GHz 2 x 2 (DL/UL MU-MIMO)

2.4 GHz 2 x 2 (DL/UL MU-MIMO)

Max. Data Rate

5 GHz 4.3 Gbps (BW240) ⓘ

2.4 GHz 688 Mbps (BW40)

Antenna Gain

5 GHz Omnidirectional: 6 dBi
Directional: 10 dBi

2.4 GHz 3 dBi

Max. TX Power

5 GHz 24 dBm

2.4 GHz 23 dBm

Max. BSSIDs

8 per Radio

Supported Data Rates

802.11be (WiFi 7) 7.3 Mbps to 4.3 Gbps (MCS0 - MCS13 NSS1/2, EHT 20/40/80/160/240)

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

802.11ac (WiFi 5) 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80/160)

802.11n 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)

^ Features

Wireless Meshing	✓
Band Steering	✓
802.11v BSS Transition Management	✓
802.11r Fast Roaming	✓
802.11k Radio Resource Management (RRM)	✓
Advanced Radio Management	✓
Passpoint (Hotspot 2.0)	✓
Captive Hotspot Portal	
Custom Branding Landing Page	✓
Voucher Authentication	✓
Payment-Based Authentication	✓
External Portal Server Support	✓
Password Authentication	✓
Guest Network Isolation	✓
Private Pre-Shared Key (PPSK)	✓
WiFi Speed Limiting	✓
Client Device Isolation	✓
WiFi Schedules	✓
RADIUS over TLS (RadSec)	✓
Dynamic RADIUS-assigned VLAN	✓

^ **Hardware**

Max. Power Consumption	13W
Includes PoE Adapter	✓
Supported Voltage Range	42.5-57V DC
Networking Interface	(1) 2.5 GbE RJ45 port
Weight	313 g (11 oz)
Management	Ethernet
Enclosure Material	UV-stabilized polycarbonate
Mount Material	UV-stabilized polycarbonate
LEDs	
System	W/B
Channel Bandwidth	HT 20/40, VHT 20/40/80/160, HE 20/40/80/160, EHT 20/40/80/160/240 (MHz)
NDA Compliant	✓
Certifications	CE, FCC, IC
Ambient Operating Temperature	-30 to 60° C (-22 to 140° F)
Ambient Operating Humidity	5 to 95% noncondensing

^ Software

Application Requirements

UniFi Network	Version 10.1.85 and later
Mobile App	UniFi iOS™: Version 10.32.1 and later Android™: Version 10.35.1 and later

Stay in Touch



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