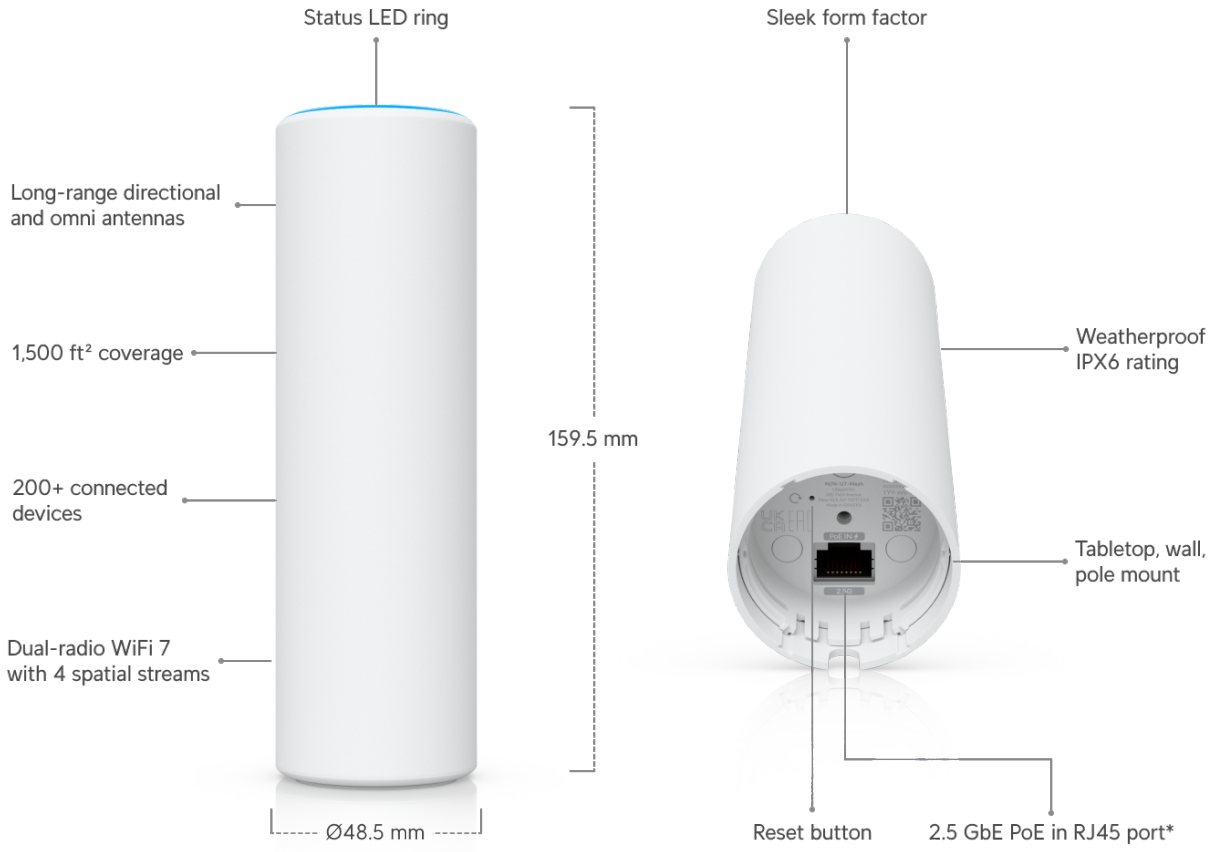
U7 Mesh

U7-Mesh



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

Overview

Dimensions	∅48.5 x 159.5 mm (∅1.9 x 6.3")
WiFi Standard	WiFi 7
Spatial Streams	4
Coverage Area	140 m² (1,500 ft²)
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 NSS1/2/3/4, HE 20/40/80/160)

• 802.11ac (WiFi 5)	6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
• 802.11n	6.5 Mbps to 300 Mbps (MCS0 - MCS31, 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)
NDAA 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