

UniFi

DATASHEET

U7 Pro Max

Datasheet

In The Box

Marketing Images

Installation Guide



Overview

Dimensions	Ø220 x 48 mm (Ø8.7 x 1.9")
WiFi Standard	WiFi 6E
Spatial Streams	10
Coverage Area	140 m ² (1,500 ft ²)
Max. Client Count	600+
Uplink	2.5 GbE
Mounting	Ceiling, Wall (Pro Mount Included)
Power Method	PoE+

Performance

MIMO	
6 GHz	4 x 4 (DL/UL MU-MIMO)
5 GHz	4 x 4 (DL/UL MU-MIMO)

2.4 GHz	2 x 2 (DL/UL MU-MIMO)
Max. Data Rate	
6 GHz	4.8 Gbps (BW160)
5 GHz	4.8 Gbps (BW160)
2.4 GHz	573.5 Mbps (BW40)
Antenna Gain	
6 GHz	6 dBi
5 GHz	5.3 dBi
2.4 GHz	3.2 dBi
Max. TX Power	
6 GHz	26 dBm
5 GHz	26 dBm
2.4 GHz	22 dBm
Max. BSSIDs	8 per Radio
Supported Data Rates	
802.11ax (WiFi 6/E)	7.3 Mbps to 4.8 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)
802.11ac (WiFi 5)	6.5 Mbps to 3.4 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80/160)
802.11n	6.5 Mbps to 600 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	22W
Supported Voltage Range	44—57V DC
Networking Interface	(1) 1/2.5 GbE RJ45 port
Weight	Device: 960 g (2.1 lb) With mount: 1.1 kg (2.4 lb)
Management	Ethernet Bluetooth
Enclosure Material	Polycarbonate, aluminum
Mount Material	Stainless steel (SUS304)
LEDs	
System	White/Blue
Channel Bandwidth	HT 20/40, VHT 20/40/80/160, HE 20/40/80/160 (MHz)
NDAA Compliant	✓
Certifications	CE, FCC, IC, Anatel: 11933-22-08356 US/CA: 2400 - 2472 MHz U-NII-1: 5150 - 5250 MHz U-NII-2A: 5250 - 5350 MHz

Operating Frequency	U-NII-2C: 5470 - 5725 MHz U-NII-3: 5725 - 5850 MHz U-NII-5 to U-NII-8: 6100 - 7125 MHz
	Worldwide: 2400 - 2483.5 MHz 5150 - 5725 MHz 5925 - 7125 MHz (Depends on the regulatory region)
Ambient Operating Temperature	-30 to 60° C (-22 to 140° F)
Ambient Operating Humidity	5 to 95% noncondensing

Software

Application Requirements	
UniFi Network	Version 6.0.45 and later