U7 Pro

Tri-band WiFi 7 access point | Model: U7-Pro



Overview

Dimensions	Ø206 x 46 mm (Ø8.1 x 1.8")
WiFi Standard	WiFi 7
Spatial Streams	6
Coverage Area	140 m² (1,500 ft²)
Max. Client Count	300+
Uplink	2.5 GbE
Mounting	Ceiling, Wall (Pro Mount Included)
Power Method	PoE+

Hardware & power

Networking Interface	(1) 1/2.5 GbE RJ45 port
Power Method	PoE+
Max. Power Consumption	21W
Supported Voltage Range	44-57V DC
Weight	680 g (1.5 lb)
Management	Ethernet
Enclosure Material	Polycarbonate, metal
Mount Material	Stainless steel (SUS304), galvanized steel (SGCC)

Radio performance

Specification	6 GHz	5 GHz	2.4 GHz
MIMO	2 x 2 (DL/UL MU-MIMO)	2 x 2 (DL/UL MU-MIMO)	2 x 2 (DL/UL MU-MIMO)
Max. data rate	5.8 Gbps (BW320)	4.3 Gbps (BW240)	688 Mbps (BW40)
Antenna gain	5.8 dBi	6 dBi	4 dBi
Max. TX power	23 dBm	26 dBm	23 dBm

Supported data rates

802.11be (WiFi 7)	7.3 Mbps to 5.8 Gbps (MCS0 - MCS13 NSS1/2, EHT 20/40/80/160/240/320)
802.11ax (WiFi 6/6E)	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)
Max. BSSIDs	8 per Radio

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Wireless features, operating specifications & management

Wireless & network features

Wireless Meshing	Yes
Band Steering	Yes
802.11v BSS Transition Management	Yes
802.11r Fast Roaming	Yes
802.11k Radio Resource Management (RRM)	Yes
Advanced Radio Management	Yes
Passpoint (Hotspot 2.0)	Yes
Guest Network Isolation	Yes
Private Pre-Shared Key (PPSK)	Yes
WiFi Speed Limiting	Yes
Client Device Isolation	Yes
WiFi Schedules	Yes
RADIUS over TLS (RadSec)	Yes
Dynamic RADIUS-assigned VLAN	Yes

Captive hotspot portal

Custom Branding Landing Page	Yes
Voucher Authentication	Yes
Payment-Based Authentication	Yes
External Portal Server Support	Yes
Password Authentication	Yes

Operating specifications

System LEDs	White/Blue
Channel bandwidth	HT 20/40, VHT 20/40/80/160, HE 20/40/80/160, EHT 20/40/80/160/240/320 (MHz)
Operating temperature	-30 to 40° C (-22 to 104° F)
Operating humidity	5 to 95% noncondensing
NDAA compliant	Yes
Certifications	CE, FCC, IC, Anatel: 06370-24-08356

Operating frequencies

US / Canada	2400 - 2472 MHz U-NII-1: 5150 - 5250 MHz U-NII-2A: 5250 - 5350 MHz U-NII-2C: 5470 - 5725 MHz U-NII-3: 5725 - 5850 MHz U-NII-5 to U-NII-8: 5925 - 7125 MHz
Worldwide	2400 - 2483.5 MHz 5150 - 5850 MHz 5925 - 7125 MHz

Software requirements

UniFi Network	Version 8.0.28 and later