

Ubiquiti UniFi U7 Pro XGS – Data Sheet

Overview

Dimensions: Ø215 x 32.5 mm (Ø8.5 x 1.3")

WiFi Standard: WiFi 7

Spatial Streams: 8

Coverage Area: 160 m² (1,750 ft²)

Max. Client Count: 500+

Uplink: 10 GbE

Mounting: Ceiling, Wall (Lite Mount Included)

Power Method: PoE++

Performance

MIMO: 6 GHz: 2x2 (DL/UL MU-MIMO)

5 GHz: 4x4 (DL/UL MU-MIMO)

2.4 GHz: 2x2 (DL/UL MU-MIMO)

Max. Data Rate: 6 GHz: 5.8 Gbps (BW320)

5 GHz: 8.6 Gbps (BW240)

2.4 GHz: 688 Mbps (BW40)

Antenna Gain: 6 GHz: 6 dBi

5 GHz: 6 dBi

2.4 GHz: 4 dBi

Max. TX Power: 6 GHz: 24 dBm

5 GHz: 29 dBm

2.4 GHz: 23 dBm

Max. BSSIDs: 8 per Radio

Supported Data Rates: 802.11be (WiFi 7):

6 GHz: 7.3 Mbps – 5.8 Gbps (MCS0–MCS13 NSS1/2, EHT 20/40/80/160/320)

5 GHz: 7.3 Mbps – 8.6 Gbps (MCS0–MCS13 NSS1/2/3/4, EHT 20/40/80/160/240)

802.11ax (WiFi 6): 7.3 Mbps – 4.8 Gbps (MCS0–MCS11 NSS1/2/3/4, HE 20/40/80/160)

802.11ac (WiFi 5): 6.5 Mbps – 3.4 Gbps (MCS0–MCS9 NSS1/2/3/4, VHT 20/40/80/160)

802.11n: 6.5 Mbps – 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)
- ✓ Zero-Wait DFS
- ✓ Advanced Radio Management
- ✓ Real-Time Spectral Analysis
- ✓ 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: 29W

Supported Voltage Range: 42.5–57V DC

Networking Interface: (1) 10 GbE RJ45 port

Weight: 800 g (1.8 lb)

Management: Ethernet

Enclosure Material: UV-stabilized polycarbonate, aluminum alloy

Mount Material: Stainless steel (SUS304), galvanized steel (SGCC)

LEDs: System: 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)

NDAA Compliant: Yes

Certifications: CE, FCC, IC

Operating Frequency: US/CA:

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; 5150–5725 MHz; 5925–7125 MHz

Ambient Operating Temperature: -30 to 40°C (-22 to 104°F)

Ambient Operating Humidity: 5 to 95% noncondensing

Software

Application Requirements: UniFi Network:

Version 9.0.114 and later (U7 Pro XGS - White)

Version 9.1.120 and later (U7 Pro XGS - Black)