

# Technical Specifications

## Overview

|                   |                                        |
|-------------------|----------------------------------------|
| Dimensions        | Ø215 x 32.5 mm<br>(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<br>(Lite Mount Included) |
| Power Method      | PoE++                                  |

## Performance

|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIMO                 |                                                                                                                                                        |
| 6 GHz                | 2 x 2 (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                | 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 to 5.8 Gbps (MCS0 - MCS13 NSS1/2, EHT 20/40/80/160/320)<br>5 GHz: 7.3 Mbps to 8.6 Gbps (MCS0 - MCS13 NSS1/2/3/4, EHT 20/40/80/160/240) |
| 802.11ax (WiFi 6)    | 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)                                                                                        |

## 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 |
| Zero-Wait DFS                           | Yes |
| Advanced Radio Management               | Yes |
| Real-Time Spectral Analysis             | Yes |
| Passpoint (Hotspot 2.0)                 | Yes |
| Captive Hotspot Portal                  |     |
| Custom Branding Landing Page            | Yes |
| Voucher Authentication                  | Yes |
| Payment-Based Authentication            | Yes |
| External Portal Server Support          | Yes |
| Password Authentication                 | 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 |

## 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                                                                 |
| 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)<br>Version 9.1.120 and later (U7 Pro XGS - Black) |
|---------------|--------------------------------------------------------------------------------------------------|