



UniFi   UISP   Branding

Q

u7 out

s   Switching   WiFi   Physical Security   Door Access   Integrations   Advanced Hosting

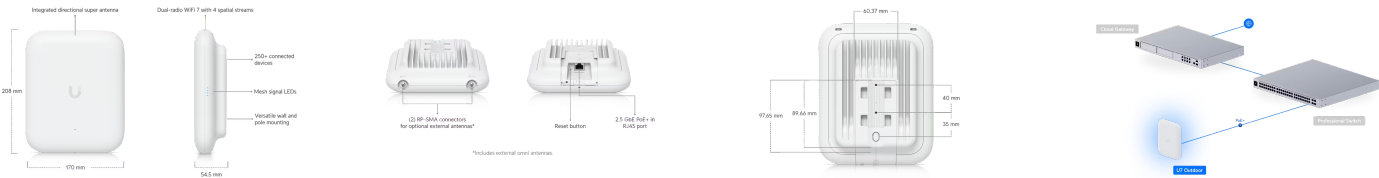
Outdoor > [U7 Outdoor](#)



U7 Outdoor

U7-Outdoor

- Datasheet
- In The Box
- Marketing Images
- Accessories
- Installation Guide



Overview

|                   |                                             |
|-------------------|---------------------------------------------|
| Dimensions        | 170 x 208 x 54.5 mm<br>(6.7 x 8.2 x 2.1")   |
| WiFi Standard     | WiFi 7                                      |
| Spatial Streams   | 4                                           |
| Coverage Area     | 465 m <sup>2</sup> (5,000 ft <sup>2</sup> ) |
| Max. Client Count | 250+                                        |
| Uplink            | 2.5 GbE                                     |
| Mounting          | Wall, Pole<br>(Mounts Included)             |
| Weatherproofing   | IPX6                                        |

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

Directional internal: 12.5 dBi, 45° x 45°  
External omni: 4 dBi, 360° x 30°

2.4 GHz

Directional internal: 8 dBi, 90° x 90°  
External omni: 3 dBi, 360° x 30°

Max. TX Power

5 GHz

26 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, 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)

^ 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  | 19W                                                                                                          |
| Supported Voltage Range | 42.5-57V DC                                                                                                  |
| Networking Interface    | (1) 1/2.5 GbE RJ45 port                                                                                      |
| Weight                  | 1.2 kg (2.6 lb)                                                                                              |
| Wind Loading            | 74.6 N at 200 km/h (16.8 lbf at 125 mph)                                                                     |
| Pole Mount Diameter     | 1-2.36" (25-60 mm)                                                                                           |
| Antennas                | (1) Directional internal antenna<br>(2) External omni antennas<br>(2) RP-SMA connectors for external antenna |
| Antenna beamwidth       |                                                                                                              |

|                               |                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 GHz                         | 45°                                                                                                                                                                                                     |
| 2.4 GHz                       | 90°                                                                                                                                                                                                     |
| Management                    | Ethernet                                                                                                                                                                                                |
| Enclosure Material            | UV-stabilized polycarbonate, aluminum alloy                                                                                                                                                             |
| Mount Material                | Polycarbonate, SGCC steel                                                                                                                                                                               |
| LEDs                          |                                                                                                                                                                                                         |
| System                        | (1) Power: White/Blue<br>(1) System: White/Blue<br>(4) Mesh Signal: Blue                                                                                                                                |
| Channel Bandwidth             | HT 20/40, VHT 20/40/80/160, HE 20/40/80/160, EHT 20/40/80/160/240 (MHz)                                                                                                                                 |
| Operating Frequency           | US/CA:<br>2400 - 2472 MHz<br>U-NII-1: 5150 - 5250 MHz<br>U-NII-2A: 5250 - 5350 MHz<br>U-NII-2C: 5470 - 5725 MHz<br>U-NII-3: 5725 - 5850 MHz<br><br>Worldwide:<br>2400 - 2483.5 MHz<br>5150 - 5850 MHz ⓘ |
| Ambient Operating Temperature | -30 to 60° C (-22 to 140° F)                                                                                                                                                                            |
| Ambient Operating Humidity    | 5 to 95% noncondensing                                                                                                                                                                                  |
| NDAA Compliant                | ✓                                                                                                                                                                                                       |
| Certifications                | CE, FCC, IC, Anatel: 08999-24-08356                                                                                                                                                                     |
| ^ <b>Software</b>             |                                                                                                                                                                                                         |
| Application Requirements      |                                                                                                                                                                                                         |
| UniFi Network                 | Version 8.2.93 and later                                                                                                                                                                                |

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