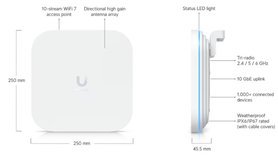
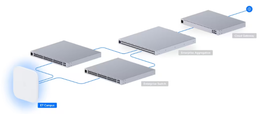
E7 Campus

E7-Campus-US

Datasheet | In The Box | Marketing Images | Installation Guide





Overview

Dimensions	Device: 250 x 250 x 45.5 mm (9.8 x 9.8 x 1.8") Articulating mount: Ø104 x 149.4 (Ø4.1 x 5.9")
WiFi Standard	WiFi 7
Spatial Streams	10
Coverage Area	465 m² (5,000 ft²)
Max. Client Count	1000+
Uplink	10 GbE 1 GbE
Mounting	Wall, Pole (Mounts Included) VESA (Optional)
Weatherproofing	IPX6 IP67 with Waterproof Door Kit (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	11.5 Gbps (BW320)
5 GHz	8.6 Gbps (BW240)
2.4 GHz	688 Mbps (BW40)
Antenna Gain	
6 GHz	Directional internal: 12 dBi, 90° x 50°
5 GHz	Directional internal: 12 dBi, 100° x 55°
2.4 GHz	Directional internal: 9 dBi, 90° x 80°
Max. TX Power	
6 GHz	30 dBm (36 dBm EIRP)
5 GHz	30 dBm
2.4 GHz	23 dBm
Max. BSSIDs	8 per Radio
Supported Data Rates	
802.11be (WiFi 7)	7.3 Mbps to 11.4 Gbps (MCS0 - MCS13 NSS1/2/3/4, EHT 20/40/80/160/240/320)
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)
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)	✓
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	44W
Supported Voltage Range	42.5—57V DC
Networking Interface	(1) 10 GbE RJ45 port (1) GbE RJ45 port
PRISM™ RF Filtering	✓
Weight	Device: 2.2 kg (4.9 lb) With articulating mount: 3.1 kg (6.8 lb)
Wind Loading	164.75 N at 200 km/h (37 lbf at 125 mph)
Pole Mount Diameter	1-2.5" (25-63.5 mm)
Antennas	(1) Internal with directional patterns
Antenna beamwidth	
6 GHz	90° x 50°
5 GHz	100° x 55°
2.4 GHz	90° x 80°
Management	Ethernet
Enclosure Material	UV-stabilized polycarbonate, aluminum alloy
Mount Material	Stainless steel, aluminum alloy
LEDs	
System	R/G/B
NDAA Compliant	✓
Certifications	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 and U-NII-7: 5925 - 6425 MHz, 6525 - 6875 MHz Worldwide: 2400 - 2483.5 MHz 5150 - 5725 MHz 5925 - 7125 MHz
Ambient Operating Temperature	-30 to 60° C (-22 to 140° F)
Ambient Operating Humidity	5 to 95% noncondensing

Software

Application Requirements	
UniFi Network	Version 9.0.114 and later
Mobile App	iOS™ version 10.20.0 and later Android™ version 10.21.3 and later