

Ubiquiti UniFi U7 Long-Range – Data Sheet

Overview

Parameter	Specification
Dimensions	Ø175.7 x 43 mm (Ø6.9 x 1.7")
WiFi Standard	WiFi 7
Spatial Streams	5
Coverage Area	160 m ² (1,750 ft ²)
Max. Client Count	300+
Uplink	2.5 GbE
Mounting	Ceiling, Wall (Plastic Mounting Plate included)
Power Method	PoE

Performance

Parameter	Specification
MIMO	5 GHz: 3x3 (DL/UL MU-MIMO); 2.4 GHz: 2x2 (DL/UL MU-MIMO)
Max. Data Rate	5 GHz: 4.3 Gbps (BW160); 2.4 GHz: 688 Mbps (BW40)
Antenna Gain	5 GHz: 6 dBi; 2.4 GHz: 4 dBi
Max. TX Power	5 GHz: 27 dBm; 2.4 GHz: 26 dBm
Supported Data Rates	802.11be (WiFi 7): 7.3 Mbps to 4.3 Gbps (MCS0 - MCS13 NSS1/2/3, EHT 20/40/80/160) 802.11ax (WiFi 6): 7.3 Mbps to 3.6 Gbps (MCS0 - MCS11 NSS1/2/3, HE 20/40/80/160) 802.11ac (WiFi 5): 6.5 Mbps to 2.6 Gbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80/160) 802.11n: 6.5 Mbps to 450 Mbps (MCS0 - MCS23, 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
- ✓ 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

Parameter	Specification
Max. Power Consumption	14W
Supported Voltage Range	42.5—57V DC
Networking Interface	(1) 2.5 GbE RJ45 port
Weight	448 g (15.8 oz)
Management	Ethernet
Enclosure Material	Polycarbonate, aluminum alloy
Mount Material	Polycarbonate, 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 (MHz)
NDAA Compliant	Yes
Certifications	CE, FCC, IC, Anatel

Ambient Operating Temperature	-30 to 50° C (-22 to 122° F)
Ambient Operating Humidity	5 to 95% noncondensing

Software

Parameter	Specification
Application Requirements	UniFi Network Version 9.1.120 and later
Mobile App	iOS™ version 10.20.2 and later; Android™ version 10.21.7 and later