U7 Pro Max

SL-U7-Pro-Max

WIRELESS ACCESS POINT

Ceiling-mounted WiFi 7 AP with 8 spatial streams, 6 GHz support, and a dedicated spectral scanning engine for interference-free WiFi in demanding, large-scale environments.







OVERVIEW

Dimensions	⌀206 × 46 mm (⌀8.1 × 1.8")
WiFi Standard	WiFi 7 *With 6 GHz support*
Spatial Streams	8
Coverage Area	160 m² (1,750 ft²)
Max. Client Count	500+
Uplink	2.5 GbE
Mounting	Ceiling, Wall (Pro Mount Included)
Power Method	PoE+

PERFORMANCE

MIMO

6 GHz	2 × 2 (DL/UL MU-MIMO)
5 GHz	4 × 4 (DL/UL MU-MIMO)
2.4 GHz	2 × 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	5.9 dBi
5 GHz	6 dBi
2.4 GHz	4 dBi
Max. TX Power	
6 GHz	23 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) 5 GHz: 7.3 Mbps to 8.6 Gbps (MCS0 - MCS13 NSS1/2/3/4, EHT 20/40/80/160/240)
802.11ax (WiFi 6/6E)	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	✓ 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 *For enhanced channel selection*

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

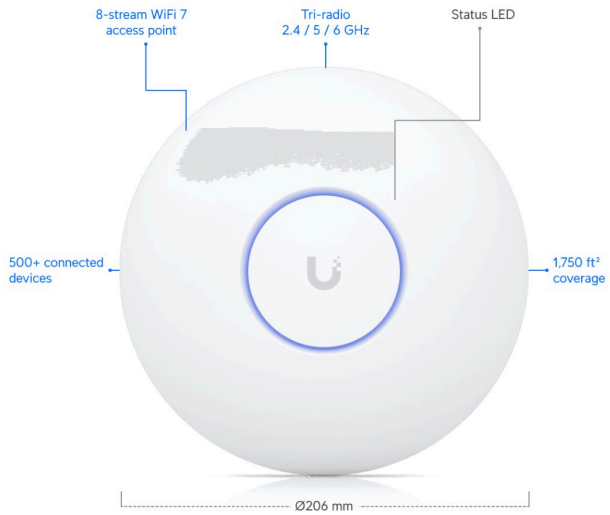
Max. Power Consumption	25W
Supported Voltage Range	44–57V DC
Networking Interface	(1) 1/2.5 GbE RJ45 port
Weight	680 g (1.5 lb)
Management	Ethernet
Enclosure Material	Polycarbonate, aluminum
Mount Material	Stainless steel (SUS304), galvanized steel (SGCC)
LEDs	
System	White/Blue
Channel Bandwidth	HT 20/40, VHT 20/40/80/160, HE 20/40/80/160, EHT 20/40/80/160/240/320 (MHz)

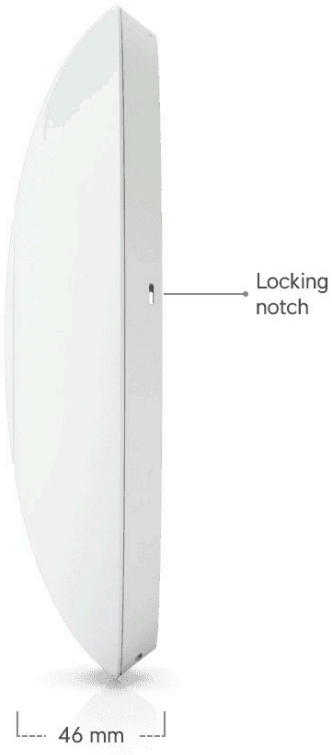
Operating Frequency	US/CA: 2400 - 2472 MHz U-NII-1: 5150 - 5250 MHz U-NII-2A: 5250 - 5350 MHz U-NII-2C: 5470 - 5725 MHz U-NII-3: 5725 - 5850 MHz U-NII-5 to U-NII-8: 5925 - 7125 MHz Worldwide: 2400 - 2483.5 MHz 5150 - 5850 MHz 5925 - 7125 MHz *For worldwide, it depends on the regulatory region*
Ambient Operating Temperature	-30 to 50° C (-22 to 122° F)
Ambient Operating Humidity	5 to 95% noncondensing
NDAA Compliant	✓ Yes
Certifications	CE, FCC, IC, Anatel: 08959-24-08356

SOFTWARE

Application Requirements	
Network application	Version 8.2.93 and later

PRODUCT DRAWINGS







Prepared by Smart Life, LLC. Specifications and product images are provided by the manufacturer as of October 27, 2026 and are subject to change without notice. Product names are trademarks of their respective owners.