U7-Pro DATASHEET

Overview

The UniFi U7 Pro is a high-performance WiFi 7 access point that delivers tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz frequencies, supporting up to 300+ clients with a coverage area of 140 m² (1,500 ft). This AP features a 2.5 GbE uplink, PoE+ power method, and ceiling/wall mounting options. Built with polycarbonate and metal enclosure for durability, it integrates seamlessly with UniFi Network application (version 8.0.28 and later) to enable advanced wireless management.

QUICK SPEC

FIGURE 1: APPEARANCE OF U7-Pro

TABLE 1: QUICK SPECS OF U7 PRO

SKU	U7-PRO
Description	Ceiling/wall-mounted WiFi 7 AP (2.5 GbE uplink)
WIFI standard	WiFi 7
Dimensions	Ø206 x 46 mm (Ø8.1 x 1.8")
Antenna Gain	6 GHz: 5.8 dBi 5 GHz: 6 dBi 2.4 GHz: 4 dBi

Product Details

FIGURE 2: FRONT PANEL OF U7-Pro

FIGURE 3: BACK PANEL OF U7-Pro

The Ubiquiti UniFi U7-Pro Access Point has the following features:

1. Max. BSSIDs (8 per Radio)

The U7 Pro supports up to 8 Basic Service Set Identifiers (BSSIDs) per radio, allowing multiple SSIDs for different purposes (e.g., guest, employee, IoT). This enhances network flexibility and organization in complex deployments.

2.802.11r Fast Roaming

By implementing 802.11r, the U7 Pro minimizes latency during client handoffs between access points. This fast-roaming capability is essential for real-time applications, such as VoIP or streaming, ensuring seamless connectivity without dropped connections in multi-AP deployments.

3. Wireless Meshing

The U7 Pro supports wireless meshing, enabling access points to interconnect wirelessly, extending network coverage without requiring additional wired connections. This feature is ideal for large or complex environments, such as warehouses or campuses, where cabling is impractical, ensuring seamless connectivity and scalability with minimal infrastructure changes.

4.Band Steering

This feature intelligently directs client devices to the optimal frequency band (2.4 GHz, 5 GHz, or 6 GHz) based on signal strength, device capability, and network load. By prioritizing faster 5 GHz or 6 GHz bands for compatible devices, it reduces congestion on the 2.4 GHz band, enhancing overall network performance and user experience in high-density settings.

5.Guest Network Isolation

This feature isolates guest traffic from the main network, preventing unauthorized access to internal resources. It enhances security in environments where guests and employees share the same infrastructure, such as offices or hospitality settings.

6.Client Device Isolation

This feature prevents direct communication between client devices on the same network, enhancing security by reducing the risk of unauthorized access or attacks. It's critical for public WiFi environments, such as cafes or libraries, where device privacy is a priority.

SPECIFICATION

U7-Pro Specification	
MODEL NUMBER	U7-Pro
WIFI STANDARD	WiFi 7
WEIGHT	680 g (1.5 lb)
DIMENSIONS (W x H x D)	Ø206 x 46 mm (Ø8.1 x 1.8")
SPATIAL STREAMS	6
COVERGAE AREA	140 m² (1,500 ft²)
ENCLOUSRE MATERIAL	Polycarbonate, metal
MOUNT MATERIAL	Stainless steel (SUS304), galvanized steel (SGCC)
MANAGEMENT INTERFACE	Ethernet
NETWORK INTERFACE	(1) 1/2.5 GbE RJ45 port
BSSID	8 per Radio
MIMO	2 x 2 (DL/UL MU-MIMO) : 6 GHz 2 x 2 (DL/UL MU-MIMO) : 5 GHz 2 x 2 (DL/UL MU-MIMO) : 2.4 GHz
CONCURRENT CLIENTS	300+
ANTENNA GAIN	6GHz 5.8 dBi 5 GHz 6 dBi 2.4 GHz 4 dBi
MAX TX POWER	6 GHz 23 dBm 5 GHz 26 dBm 2.4 GHz 23 dBm
SUPPORTES VOLTAGE RANGE	44—57V DC
OPERATING TEMPERATURE	-30 to 40° C (-22 to 104° F)
OPERATING HUMIDITY	5 to 95% noncondensing
MOUNTING	WALL/CEILING (Pro Mount Included)
POWER CONSUMPTIONS	21W
POWER METHOD	PoE+
LED	White/Blue
CERTIFICATIONS	CE, FCC, IC, Anatel

Why Insight Infosys.com

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