

The HPE Networking Instant On AP21 (S1T09A) Access Point Datasheet

Overview

The HPE Networking Instant On AP21 (S1T09A) is a dual-radio, indoor Wi-Fi 6 (802.11ax) access point designed to bring dependable connectivity to small spaces. This Wi-Fi CERTIFIED 6 access point delivers up to 1.2 Gbps on 5 GHz and 300 Mbps on 2.4 GHz over two dual-band antennas, supports up to 50 devices, and covers areas up to 1,500 sq ft (about 139 m²).

Built for set-and-forget deployments such as small retail stores, cafés, home offices, and conference rooms, the AP21 is managed through the Instant On mobile app or web portal with no licensing fees. It can be powered by 802.3af PoE or a 12V DC adapter, and Smart Mesh lets it extend an existing network wirelessly without running extra cables. WPA2/WPA3 and Enhanced Open (OWE) security are on by default.

QUICK SPEC

Figure 1: APPEARANCE OF S1T09A (TOP VIEW)



TABLE 1: Quick Specs

SKU	S1T09A
Wi-Fi Standard	Wi-Fi 6 (802.11ax), 2x2 MIMO, dual band
Max. Data Rate	1.2 Gbps (5 GHz), 300 Mbps (2.4 GHz)
Uplink Port	1 x 10/100/1000 Base-T (RJ-45)
Recommended Devices	Up to 50
Dimensions (W x D x H)	14.5 x 14.5 x 5.1 cm

Product Details

FIGURE 2: ANGLED VIEW OF S1T09A



FIGURE 3: PORT SIDE OF S1T09A



HPE Networking Instant On AP21 (S1T09A) provides these features:

1. Wi-Fi 6 Dual-Band Performance

Two dual-band 2x2 MIMO radios deliver up to 1.2 Gbps on the 5 GHz band and 300 Mbps on 2.4 GHz with 20/40/80 MHz channel support. OFDMA, MU-MIMO, 1024-QAM, and BSS Coloring improve capacity and reduce latency when many Wi-Fi 6 clients share the airspace.

2. Compact Design for Small Spaces

At 145 x 145 x 51 mm and 255 g, the AP21 mounts discreetly on a ceiling or wall with the included clip. It is well suited to small retail stores, pop-up shops, startups, home offices, and conference rooms of up to about 1,500 sq ft.

3. Flexible PoE or DC Power

The AP21 accepts 802.3af PoE or 12V DC power, so it fits existing PoE infrastructure or standalone installs. The S1T09A ships without a power supply, making it a good fit for sites that already have PoE switching or injectors in place.

4. Smart Mesh Wireless Extension

Smart Mesh lets the AP21 work with other Instant On access points to extend coverage wirelessly. Once the first AP is wired, a second AP only needs power and connects over the 5 GHz band, removing the need for additional Ethernet runs.

5. Cloud and App-Based Management

Set up and manage the network from the Instant On mobile app or web portal, including guest networks, SSID scheduling, bandwidth limits, and application blocking. All features are included with no recurring subscription or licensing fees.

6. Built-in Security

WPA2, WPA3, and Enhanced Open (OWE) authentication are supported out of the box, and an integrated Trusted Platform Module (TPM) securely stores credentials, keys, and boot codes. Guest traffic can be kept separate from the business network.

7. Smart Roaming and Radio Optimization

ClientMatch moves clients to the best-performing AP, while transmit beamforming, LDPC, Target Wake Time, and Advanced Cellular Coexistence improve range, efficiency, and reliability. HPE backs the AP21 with a 2-year warranty.

Specification

Parameter	Specification
Model	HPE Networking Instant On AP21 (RW)
SKU	S1T09A
Device Type	Indoor Wi-Fi 6 access point
Radios	Dual-band 802.11n/ax, 2x2 MIMO, 5 GHz / 2.4 GHz
Supported Standards	802.11a/b/g/n/ac/ax
Channel Bandwidth	20/40/80 MHz
Max. Data Rate (5 GHz)	1.2 Gbps
Max. Data Rate (2.4 GHz)	300 Mbps
Antennas	Dual omni-directional, 2x2 MIMO (internal)
Antenna Gain	2.4 GHz: 1.7 dBi 5 GHz: 4.8 dBi
Max. Transmit Power	5 GHz: +21 dBm 2.4 GHz: +21 dBm (18 dBm per chain + 3 dB MIMO gain)
Recommended Devices	50
Coverage	Up to 1,500 sq ft (about 139 m ²)
Interfaces	1 x 1 GbE Base-T uplink, DC power connector, LED indicators, reset button, Kensington security slot
Power Options	PoE 802.3af (Class 3) or 12V DC (adapter not included)
Max. Power Consumption	10.1 W (PoE) / 10.9 W (DC)
Security	WPA2, WPA3, Enhanced Open (OWE), TPM
Management	Instant On mobile app and web portal
Mounting	Ceiling / wall mount clip (included)
Dimensions (W x D x H)	145 x 145 x 51 mm (5.7 x 5.7 x 2.0 in)
Weight	255 g (9 oz)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Reliability (MTBF)	106 years
Warranty	2-year limited warranty

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