



aruba AP22 Instant On Indoor Access Points User Manual

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QuickSpecs

Aruba Instant On AP22 Indoor Access Points Overview

Aruba Instant On AP22 Indoor Access Points

**High-speed Wi-Fi designed with small businesses in mind.
Perfect for reimagined offices, schools, and retail/hospitality businesses.**

Small businesses are facing a number of challenges—challenges that need constant attention. The right technology can help you stay on top of them and stay ahead of the curve. Technologies like the ones found inside the AP22.

To meet the increasing needs and volumes of connected devices, Aruba Instant On is announcing its first Wi-Fi 6 access point: AP22. Delivering higher capacity and greater performance at a competitive price, the AP22 is the perfect access point for small businesses with expanding mobile, cloud, and IoT requirements.

Wi-Fi Certified 6™ AP22 access points deliver faster Wi-Fi speeds, greater capacity, and reduced latency between access points and devices for a superior Wi-Fi experience. With the AP22, you can upgrade your Wi-Fi network to boost performance across devices now, while preparing it for more mobile and IoT devices in the future.

Already have a demanding mobile and/or IoT environment? Delivering 4x the capacity of 802.11ac access points, AP22 can provide an exceptional user experience in a broad variety of scenarios. Remote offices. Hybrid classrooms. Hotels and restaurants. Reimagined retail and hospitality. The AP22 can handle them all without breaking a sweat.

Want to make wires a thing of the past? Combine the AP22 with Smart Mesh Wi-Fi for complete wireless coverage. Want to keep bandwidth hogs and unknown devices off your network? Banish them with the flip of your thumb on the Aruba Instant On App.

We know the critical role Wi-Fi plays in business today. No business can't afford downtime. The Aruba Instant On AP22, at every level, is designed for rapid deployment and simplified management. Be it mounting hardware, or remote device management, or having access to the latest business-grade software, the AP22 lives to make your life easier.



Hewlett Packard Enterprise

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Overview



Aruba Instant On AP22 Indoor Access Points

Key Features

- Fast 802.11ax, 2X2:2 Wi-Fi CERTIFIED 6™ (Wi-Fi 6) MU-MIMO performance
- Smart Mesh Wi-Fi support
- Built-in Wi-Fi router/gateway functionality
- Integrated Bluetooth

- Easy-to-use web and mobile app for setup and management
- Secure Guest Wi-Fi with simple setup
- Application classification, control and visibility

Standard Features

Orthogonal Frequency-Division Multiple Access (OFDMA)

Allows access points (APs) to handle multiple Wi-Fi 6-capable clients on each channel simultaneously—regardless of device or traffic type. This improves efficiency by boosting overall capacity, while reducing latency..

Target Wake Time (TWT)

Ideal for IoTs that communicate infrequently, TWT establishes a schedule for when clients need to communicate with an AP. This helps reduce power consumption, extending the battery life of clients.

Multiuser, Multiple Input, Multiple Output (MU-MIMO)

Allows you to serve multiple clients (Wi-Fi 5 and Wi-Fi 6) at the same time.

1024-Quadrature Amplitude Modulation (1024-QAM)

Enables a 25% data increase over 256 QAM, improving throughput in your access points and devices.

Trusted Platform Module (TPM)

All Aruba Instant On access points have an installed TPM for secure storage of credentials, keys, and boot codes.

Basic Service Set Coloring (BSS Coloring)

Allows the network to assign a “color” tag to a channel and reduce the threshold for interference. Network performance is improved because APs on the same channel can be closer together and still transmit at the same time—as long as they are different colors.

Aruba Advanced Cellular Coexistence (ACC)

Uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small-cell or femtocell equipment.

Low Density Parity Check (LDPC)

Delivers high-efficiency error correction for increased throughput..

Transmit Beamforming (TxBF)

Delivers increased signal reliability and range.

The Aruba Instant On App

Manage everything through our official app on the device of your choice. Manage your network from anywhere, anytime- all from the palm of your hand.

Built-in Security Gateway/Firewall

Stop unwanted people and bots from accessing your network. Leverage advanced features that do not require external gateways—or the complexity that comes with them. Quickly and easily swap it out with another AP in a single click, in case of gateway failure.

Complete App Visibility and Control

Get full visibility into the apps running on your network. Block certain applications from being used. Manage this feature straight from the Aruba Instant On app.

Tailored User Experiences

Customize the experience with logos, authentications, and rules of use. Apply bandwidth rates. Set data usage per app. Limit duration of use. Use an external portal or service like Facebook Wi-Fi. Create open guest networks for quick and easy access.

Enterprise Grade Wi-Fi and Features

Control network widths, channels, and channel widths to suit your specific environment. Keep users happy as they move between spaces or meetings with a seamless handoff between APs. Just provide secure WPA2 or WPA3 authentication on your networks and we'll do the rest.

Multi-site Management

Manage multiple sites, multiple networks, distributed deployments, and multi-tenancy deployments with ease through our cloudhosted web interface and mobile app. Create unique configurations, statistics, guest portals, and admin read/write and read-only privileges for every site.

PPPoE and Static IP

Every customer has a different environment. They might want to authenticate with the ISP's PPPoE server and provide static IP to the APs.

Smart Mesh

Extend coverage to hard-to-reach spaces where Ethernet cabling may not exist. Set up a Mesh network up in minutes through the app—indoors or out.

5-star Voice and Video Quality

Keep users connected via softphones and mobile apps. Automatically detect and prioritize voice and video applications such as Skype, FaceTime, and WeChat that use SIP, SCCP and other popular protocols.

Configuration Information

BTO Models

Rule # Description

AP22

AP22	SKU
Aruba Instant On AP22 (US) 2x2 Wi-Fi 6 Indoor Access Point • PoE Powered with the choice to select an optional power adapter	R4W01A
Aruba Instant On AP22 (RW) 2x2 Wi-Fi 6 Indoor Access Point • PoE Powered with the choice to select an optional power adapter	R4W02A
Aruba Instant On AP22 (JP) 2x2 Wi-Fi 6 Indoor Access Point • PoE Powered with the choice to select an optional power adapter	R4W03A
Aruba Instant On AP22 (EG) 2x2 Wi-Fi 6 Indoor Access Point • PoE Powered with the choice to select an optional power adapter	R4W04A
Aruba Instant On AP22 (IL) 2x2 Wi-Fi 6 Indoor Access Point • PoE Powered with the choice to select an optional power adapter	R4W05A

Notes:

OCA Only Model Selection Form – Aruba > Instant On > Wireless Access Points: Indoor AP22

AP22 Bundle

Aruba Instant On AP22 12V PSU Bundle JP • Includes 12V Power Adapter with US Power Plug	R6R77A
Aruba Instant On AP22 12V PSU Bundle IL • Includes 12V Power Adapter with EU Power Plug	R6R78A
Aruba Instant On AP22 12V PSU Bundle EG • Includes 12V Power Adapter with EU Power Plug	R6R79A
Instant On AP22 with 12V/18W Power adaptor US Bundle • Includes 12V Power Adapter with US Power Plug	R6M49A
Instant On AP22 with 12V/18W Power adaptor EU Bundle • Includes 12V Power Adapter with EU Power Plug	R6M50A
Instant On AP22 with 12V/18W Power adaptor Worldwide Bundle • Includes 12V Power Adapter with Localized Power Plug	R6M51A
Instant On AP22 with 12V/18W Power adaptor Worldwide Bundle • No Localization Selected	R6M51A

Configuration Rules

Rule #	Description
1	If this Access Point is selected, bring in (Min 1 // Max 1) Localized Wall Power Cord Option based on the HPN Localization Menu.
2	Drop down under Included Power Adapter should offer the following selections: No Localization – #AC3 Option
Notes:	OCA Only Model Selection Form – Aruba > Instant On > Wireless Access Points: Indoor AP22 Bundles

Configuration Information

Accessories

Options: For AP22 Std (Min 0 // max 1) User Selection (min 0 // max 1)

Remarks: Description Aruba Instant On AP22 flush mount sleeve

Notes:

Remarks	Description Aruba Instant On AP22 flush mount sleeve	SKU R6P90A
Notes:	AP22 ships with 1 mount for wall and ceiling; add this additional mount for aesthetic design.	
Notes:		
	Spare Items- Mount Kits For AP22 Std (Min 0 // max 99) User Selection (min 0 // max 99) AP-220-MNT-C1 2x Ceiling Grid Rail Adapter for Basic Flat Rails Mount Kit • AP-220-MNT-C1 AP Mount Kit for AP-103 Single Gang Wall Box Mount Adapter	JW044A
	AP-MNT-W4 White Low Profile Basic AP Flat Surface Mount Kit • AP-MNT-W4 Low Profile Basic AP Mount Kit	Q9U25A
Notes:	AP22 Unit ships with two mounting brackets, one for the ceiling mount and one for the wall mount	

Power Options

PoE Power Options

For AP22 Std (Min 0 // max 1) User Selection (min 0 // max 1)

Rule #	Description	
1	Aruba Instant On 15.4W 802.3af POE Midspan Injector	SKU
1	Aruba Instant On 12V/48W PSU Power Adaptor	R2X22A
Notes:	Most devices are PoE powered from switch so these are optional.	R3X85A

Configuration Rules

1. If this Power Supply is selected, bring in (Min 1 // Max 1) Localized power cord based on the Aruba Wireless Power Cord Table.

Technical Specifications

Wi-Fi Radio Specifications

- Dual radio for simultaneous dual-band operation
- 5 GHz 802.11ax 2x2 MIMO for up to 1.2 Gbps wireless data rate, with Multi User MIMO support (Wi-Fi 6)
- 2.4 GHz 802.11ax 2x2 MIMO for up to 574 Mbps wireless data rate (Wi-Fi 6)
- Maximum (aggregated, conducted total) transmit power (limited by local regulatory requirements):
5GHz band: +21dBm (+18dBm per chain, 3dB MIMO gain)
2.4Ghz band: +21dBm (+18dBm per chain, 3dB MIMO gain)

Power

- Power over Ethernet (POE): 802.3af (class 3)
- Max power consumption (worst-case): 10.1W (PoE), 8.8W (DC)
- DC power (12V)

Notes: Power sources are sold separately unless you purchase the bundle SKU which comes with power options.

Additional interfaces

- Uplink Gigabit Ethernet port, with PoE-in support (802.3af)
- DC power connector (12V)
- Bluetooth Low Energy (BLE) radio
- LED status indicators (2)
- Reset/LED control button
- Kensington security slot

Antennas

- Down-tilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 4.3dBi in 2.4GHz and 5.6dBi in 5GHz (of the effective, combined pattern for both antennas in each band).

Mounting

- The access point ships with a white mount clip that can attach to both wall and ceiling.
- You can also purchase a mount (R6P90A) for aesthetic design and looks of the APs, to blend seamless into your environment.

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Dimensions and weight

- Dimensions and weights exclude mount
- 160 (W) x 160 (D) x 37 mm (H)
- 6.3 (W) x 6.3 (D) x 1.5 in (H)
- 500 gm/1.1 lbs

Environmental

- Operating temperature: 0° C to +40° C (32° F to +104° F)

Certifications

- UL 2043 plenum rating
- EN 60601-1-1 and EN 60601-1-2 (for deployment in medical environments)

- Wi-Fi Alliance certified (WFA) 802.11ax with (Wi-Fi 6), WPA2, WPA3

Warranty

- Aruba Instant On 2-Year warranty with 24x7 phone support for first 90 days and chat support for the entire warranty period. Community support as long as you own the products.

Summary of Changes

Date	Version History	Action	Description of Change
14-Jun-21	Version 2	Changed	Standard Features section was updated.
3-Aug-20	Version 1	New	New QuickSpecs

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