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Aruba 303h access point datasheet



Deployed with or without a controller. It boasts single- or dual-radio mode. It enables an always-on user experience with low total cost of ownership. This maximizes data throughput and improves network efficiency. Easy, adaptable solutions combines wireless and wired in a single compact device, easily deployed as a wall-mounted hospitality AP or converted to a desk mount. Even if you are not familiar with Aruba products, they are easy to master quickly. And with the aforementioned ARM technology, you can automatically assign channel and power settings. USB port for cellular backup or IoT expansion. ClientMatch continuously monitors the health of all clients connected to each AP. intelligently grouping them. Automatically enforces consistent policies across all wired and wireless networks, keeping users and devices secure. Maximum concurrent data rate of 867 Mbps (megabits per second) in the 5GHz band for 802.11ac. Three local gigabit Ethernet ports to securely attach wired devices to your network, plus PoE connection. Highly secure, reliable performance. Provides VPN connectivity to connect to corporate applications while maintaining privacy and compliance. The Aruba AP 303H is a flat-out cost-effective little 802.11ac access point. Some numbers on the AP 303H It moves up to 867 Mbps at 5 GHz or 400 Mbps at 2.4 GHz in single-radio 2x2 mode. In dual-radio 1x1 mode, the maximum data rates for the 203H AP are up to 433 Mbps in the 5 GHz band and 200 Mbps in the 2.4 GHz band. Initial config of the Aruba AP 303H It has great, easy-to-use technology, and has great range! It's easy to set up multiple AP's, including guest access. Securely attaches wired devices to your network and one port supplying additional power. This will provide simultaneous data for up to two devices. Highlights Choice of operating modes: Controller mode, and Aruba Instant mode Supports up to 867 Mbps in the 5 GHz band (single-radio 2x2 mode) Supports up to 400 Mbps in the 2.4 GHz band (single-radio 2x2 mode) Built-in Bluetooth Low-Energy (BLE) radio Aruba AP 303H datasheet The multi-functional Wave 2 303H access point delivers best-in-class Wi-Fi connectivity for hospitality and branch offices, enabling an always-on user experience with low TCO. Having trouble viewing this document? And if you need to reconfigure, using Instant Mode makes configuration straightforward. In controllerless (Instant) mode, the controller function is virtualized in a cluster of APs. As the network grows or requirements change, Instant deployments can easily migrate to controller-based mode. Overview Unified dual-radio 802.11ac Wave 2 2x2:2 hospitality and branch AP with internal antennas, three local Gigabit Ethernet ports, PoE out and USB host interface Supports wall-box and desk mount deployments Wi-Fi Radio Specifications AP type: Indoor, dual radio, 5GHz 802.11ac 2x2 MIMO and 2.4GHz 802.11n 2x2 MIMO1 Software-configurable dual radio supports 5GHz (Radio 0) and 2.4GHz (Radio 1) 5GHz: Two spatial stream Multi User (MU) MIMO for up to 867Mbps wireless data rate up to two (1x1 VHT80) MU-MIMO capable client devices simultaneously 5GHz: Two spatial stream Single User (SU) MIMO for up to 867Mbps wireless data rate to individual 2x2 VHT80 client devices 2.4GHz: Two spatial stream Single User (SU) MIMO for up to 300Mbps wireless data rate to individual 2x2 HT40 client devices Support for up to 256 associated client devices per radio, and up to 16 BSSIDs per radio Supported frequency bands (country-specific restrictions apply): 2.400 to 2.4835GHz 5.150 to 5.250GHz 5.250 to 5.350GHz 5.470 to 5.725GHz 5.725 to 5.850GHz Available channels: Dependent on configured regulatory domain Dynamic frequency selection (DFS) optimizes the use of available RF spectrum Supported radio technologies: 802.11b: Direct-sequence spread-spectrum (DSSS) 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM) Supported modulation types: 802.11b: BPSK, QPSK, CCK 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Transmit power: Configurable in increments of 0.5 dBm Maximum (conducted) transmit power (limited by local regulatory requirements): 2.4GHz band: +18 dBm per chain, +21 dBm aggregate (2x2) 5GHz band: +18 dBm per chain, +21 dBm aggregate (2x2) Note: conducted transmit power levels exclude antenna gain. When using an 802.3af PoE source, the PoE out (PSE) capability of the 303H is always disabled. Without IPM, both the USB port and PoE out (PSE) capability are disabled when the AP is powered by an 802.3af PoE source, and either the USB port or the PoE out (PSE) capability is disabled when powered by an 802.3at PoE source (PSE capability is disabled by default). When using IPM, the AP may enter power-save mode with reduced functionality when powered by a PoE source (see details on Intelligent Power Monitoring elsewhere in this datasheet). Maximum (worst-case) power consumption: 9.7W Excludes power consumed by external USB and/or PoE-PD device (and internal losses); this could add up to 6.1W (PoE) for a 5W/1A USB device and up to 15.6W for a max load (15.4W) 802.3af PoE-PD device Maximum (worst-case) power consumption in idle mode: 4.9W (PoE) or 4.8W (DC) Mounting The AP ships with a mounting plate to attach the AP to a single-gang wall-box (most international variations covered). The horizontal beamwidth is roughly 120 degrees. Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the effective per-antenna pattern is 3.2dBi in 2.4GHz and 4.6dBi in 5GHz. Other Interfaces Uplink: 10/100/1000BASE-T Ethernet (RJ-45, back) Auto-sensing link speed and MDI/MDX 802.3az Energy Efficient Ethernet (EEE) PoE-PD (input): 48 Vdc (nominal) 802.3af/at PoE Local: Three 10/100/1000BASE-T Ethernet (RJ-45, bottom) Auto-sensing link speed and MDI/MDX 802.3az Energy Efficient Ethernet (EEE) PoE-PD (output): 48 Vdc (nominal) 802.3af PoE Passive pass-through interface (two RJ-45, back and bottom) Bluetooth Low Energy (BLE) radio Up to 4dBm transmit power (class 2) and -93dBm receive sensitivity Integrated antenna with moderately directional pattern and peak gain of 0.9dBi USB 2.0 host interface (Type A connector) 3G/4G cellular modems Device battery charging port Capable of supplying up to 1A/5 watts of power to an attached device DC power interface, accepts 1.35/3.5-mm center-positive circular plug with 9.5-mm length Visual indicators (LEDs): Power/system status Radio status PoE-PSE status Local network port status (3x) Reset/LED control button ("paperclip access") Factory reset (when activated during device power up) LED control: toggle off/normal Serial console interface (custom, uUSB physical jack) Encrypted Throughput Maximum IPsec encrypted wired throughput: 100Mbps Power Sources and Consumption The AP supports direct DC power and Power over Ethernet (PoE) When both power sources are available, DC power takes priority over PoE Power sources are sold separately Direct DC power source: 48Vdc nominal, +/- 5% Power over Ethernet (PoE): 48 Vdc (nominal) 802.3af/802.3at compliant source Unrestricted functionality with direct DC power. And, it can operate in either 1x1 dual-radio mode, or 2x2 single-radio mode. It is very well suited for organizations that require a lot of wireless access points and simple, intuitive management of them. It will also give you network services and distributed and centralized traffic forwarding. Simply power up, plug it into your network, and connect. There is no regulatory information and approvals, please see your Aruba representative. Reliability MTBF: 1,000,000 hours (124 years) at +25°C operating temperature Regulatory Model Number AP-303H-xx (all variants): APNH303 Certifications CB Scheme Safety, cTUVus UL2043 plenum rating Wi-Fi Alliance (WFA) certified 802.11a/b/g/n/ac Passpoint® (Release 2) with Aruba OS and Instant 3+ Warranty Aruba limited lifetime warranty Minimum Software Versions Aruba OS™ 6.5.2.0/8.2.0.0 Aruba Instant OS™ 6.5.2.0/8.2.0.0 Find information on Aruba products that complement the 303H Series APs or another solution that might better suit your needs. High performance, cost-effective, medium-density, 2x2 radios 505H High-end dual radio, four Ethernet ports, 2X PoE-outdoor, 500 Mbps 503H Mid-range radio, two Ethernet ports, PoE Indoor, 100 Mbps crypto performance High performance for high-density indoor environments with dual radio 4X4, 1X 2.5Gbps Ethernet ports, BLE, USB344 external antennas 345 internal antennas Entry-level and outdoor warehouse 365 integrated Omni-Directional antenna outdoor 367 integrated directional antenna outdoor Highest performance for extreme-density mobile and IoT deployments 555 Dual/Tri-radio 8X8/4X4, internal antennas with 2X 5Gbps Ethernet ports, BLE & Zigbee USB Comes with multi-user MIMO Wi-Fi 5 and supports up to 867Mbps in the 5GHz band. Download "Aruba 303H Data Sheet.pdf" Aruba-303H-Data-Sheet.pdf - Downloaded 319 times - 576 KB Delivers multi-functional access points ideal for hotels, medical clinics, branch offices, and remote work. And Corporate Armor gives you uninterrupted 5-star service and years of specialization in Aruba's whole family of products. One of these ports is also capable of supplying PoE power to the attached device. It is designed to do so at minimal cost for low-to-moderate density areas. Aruba also has plenty of switches to integrate with your access point for ease-of-access and peace of mind. APs can also work with Aruba Location Services to deliver advanced contact tracing, including granular location and proximity dashboarding in Aruba Central. Contact Tracing at a Glance Explore upgrading to Wi-Fi 6 802.11ac wireless and wired connectivity, three ethernet ports, one device, and a wall-jack or desk stand-mount. Provides service level agreement-grade performance for latency-sensitive, high-bandwidth, and IoT services. Combines

wireless and wired access in a single, compact device on 802.11ac Wave 2 with wall-jack or desk stand-mounting. You can also provide airtime fairness and ensure that APs stay clear of all sources of RF interference. So call us at 877-449-0458, or email us with any and all questions. And it gives excellent Wi-Fi to hospitality and branch offices. It's ideal for hotels, medical clinics, classrooms, branch offices and remote workstations which often require flexible and easy deployment options. And when it comes to Wi-Fi management, Aruba gives you the flexibility to choose. The 303H Series APs act as an IoT platform, eliminating the need for an overlay infrastructure. The AP 303H supports MU-MIMO and 2 spatial streams. Three local Gigabit Ethernet ports are available to securely attach wired devices to your network. The entry-level Aruba AP 303H access point delivers superb user experience for medium density environments. Two flexible options ideal for hotels, branch offices, and remote workstations. Enable IoT location services, asset tracking, and mobile engagement. For total (EIRP) transmit power, add antenna gainAdvanced Cellular Coexistence (ACC) minimizes interference from cellular networksMaximum ratio combining (MRC) for improved receiver performanceCyclic delay/shift diversity (CDD/CSD) for improved downlink RF performanceShort guard interval for 20MHz, 40MHz and 80MHz channelsSpace-time block coding (STBC) for increased range and improved receptionLow-density parity check (LDPC) for high-efficiency error correction and increased throughputTransmit beam-forming (TxBF) for increased signal reliability and rangeSupported data rates (Mbps):802.11b: 1, 2, 5.5, 11802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54802.11n (2.4GHz): 6.5 to 300 (MCS0 to MCS15)802.11n (5GHz): 6.5 to 450 (MCS0 to MCS23)802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2 for VHT20/40/80)802.11n high-throughput (HT) support: HT 20/40802.11ac very high throughput (VHT) support: VHT 20/40/80802.11n/ac packet aggregation: A-MPDU, A-MSDU1 256-QAM modulation (802.11ac) supported by the 2.4GHz radio as well.Wi-Fi AntennasTwo integrated dual-band moderately directional antennas for 2x2 MIMO with maximum individual antenna gain of 4.3dBi in 2.4GHz and 6.2dBi in 5GHz. Built-in antennas are optimized for vertical orientation of the AP. Ideal for remote workers and small branch offices.Learn about Aruba Instant Mode IoT and advanced contact tracingIntegrated Bluetooth support and IoT expansion radio for Zigbee (optional). It is definitely designed for the cost-sensitive end-user.

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