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Overview

R2H28A is the Aruba AP-505 (RW) - Campus - wireless access point. These affordable Wi-Fi 6 access points provide high-performance connectivity for any organization experiencing growing numbers of mobile, IoT and mobility requirements. With a maximum aggregate data rate of 1.77 Gbps (1.774 Gbps), they deliver the speed and reliability needed for venues and workplaces such as schools, midsize offices and retailers.

Quick Spec

Figure 1 shows the appearance of R2H28A.



Table 1 shows the quick spec.

Model	R2H28A
Series	Aruba AP-505
AP type	Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO
5GHz radio	Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate with 2SS HE80 802.11ax client devices
2.4GHz radio	Two spatial stream Single User (SU) MIMO for up to 574Mbps (287 Mbps) wireless data rate with 2SS HE40 (HE20) 802.11ax client devices
Antenna	2 Internal Omni-directional 5.7 DBi Antenna
Maximum number of associated client devices	Up to 256 associated client devices per radio
Supported data rates (Mbps)	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 • 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM • 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM • 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40) • 802.11ax (5GHz): 3.6 to 1,201 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE80)

Product Details

Figure 2 shows the front panel of R2H28A.



Figure 3 shows the back panel of R2H28A.



Aruba AP-500 provides these key features:

- 1.49 Gbps maximum real-world speed (HE80/HE20)
- WPA3 and Enhanced Open security
- Built-in technology that resolves sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices
- OFDMA for enhanced multi-user efficiency
- IoT-ready Bluetooth 5 and Zigbee support

The Accessories

Table 2 shows the accessories of R2H28A.

Mount Kit	
R3J18A	AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface
R3J19A	AP-MNT-E Campus AP mount bracket kit (individual) type E: wall-box
Power Adaptor	
R3K00A	AP-AC2-12B 12V/48W AC/DC desktop style power adaptor with 2.1/5.5mm connector

Compare to Similar Items

Table 3 shows the comparison.

Model	R2H28A	JZ336A
Series	Aruba AP-505	Aruba AP-535
AP type	Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO	Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 4x4 MIMO

5GHz radio	Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate with 2SS HE80 802.11ax client devices	Four spatial stream Single User (SU) MIMO for up to 2.4Gbps wireless data rate with individual 4SS HE80 (or 2SS HE160) 802.11ax client devices, or with four 1SS or two 2SS HE80 802.11ax MU-MIMO capable client devices simultaneously
2.4GHz radio	Two spatial stream Single User (SU) MIMO for up to 574Mbps (287 Mbps) wireless data rate with 2SS HE40 (HE20) 802.11ax client devices	Four spatial stream Single User (SU) MIMO for up to 1,147Mbps (574Mbps) wireless data rate with individual 4SS HE40 (HE20) 802.11ax client devices or with two 2SS HE40 (HE20) 802.11ax MU-MIMO capable client devices simultaneously
Antenna	2 Internal Omni-directional 5.7 DBi Antenna	4 integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 3.5dBi in 2.4GHz and 5.4dBi in 5GHz.
Supported data rates (Mbps)	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 • 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM • 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM • 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40) • 802.11ax (5GHz): 3.6 to 1,201 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE80) 	<ul style="list-style-type: none"> - 802.11b: 1, 2, 5.5, 11 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 - 802.11n: 6.5 to 600 (MCS0 to MCS31, HT20 to HT40), 800 with 256-QAM - 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160), 2,166 with 1024-QAM - 802.11ax (2.4GHz): 3.6 to 1,147 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE40) - 802.11ax (5GHz): 3.6 to 2,402 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160)

Get More Information

Do you have any question about the R2H28A?

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Specification

R2H28A Specification	
Series	Aruba AP-505
AP type	Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO
5GHz radio	Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate with 2SS HE80 802.11ax client devices
2.4GHz radio	Two spatial stream Single User (SU) MIMO for up to 574Mbps (287 Mbps) wireless data rate with 2SS HE40 (HE20) 802.11ax client devices
Maximum number of BSSIDs	16 BSSIDs per radio
Supported frequency bands (country-specific restrictions apply)	<ul style="list-style-type: none"> • 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
Supported radio technologies	<ul style="list-style-type: none"> • 802.11b: Direct-sequence spread-spectrum (DSSS) • 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM) • 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 8 resource units
Supported modulation types	<ul style="list-style-type: none"> • 802.11b: BPSK, QPSK, CCK • 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension) • 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension) • 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Antenna	2 Internal Omni-directional 5.7 DBi Antenna
Maximum number of associated client devices	Up to 256 associated client devices per radio

Supported data rates (Mbps)	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 • 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM • 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM • 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40) • 802.11ax (5GHz): 3.6 to 1,201 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE80)
802.11n high-throughput (HT) support	HT20/40
802.11ac very high throughput (VHT) support	VHT20/40/80
802.11ax high efficiency (HE) support	HE20/40/80
802.11n/ac/ax packet aggregation	A-MPDU, A-MSDU
Transmit power	Configurable in increments of 0.5 dBm
Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements)	2.4 GHz band: +21 dBm (18dBm per chain) 5 GHz band: +21 dBm (18 dBm per chain) Note: conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.

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