



ARUBA AP-124 AND AP-125 ACCESS POINTS

The multifunction AP-124 and AP-125 are ultra-high-performance indoor 802.11n access points (APs) designed for maximum deployment flexibility in high-density environments that require above-ceiling or enclosure-based installations. These high-speed APs deliver wire-like performance at data rates up to 300 Mbps per radio.

The AP-124 features two 3x3 MIMO dual-band 2.4-GHz/5-GHz radios with detachable antenna interfaces while the AP-125 features the same radios with integrated antenna elements. Both are built to provide years of trouble-free operation and are backed by a limited lifetime warranty.

Working with Aruba's line of centralized Mobility Controllers, the AP-124 and AP-125 deliver secure, high-speed network services that move users to a "wireless where possible, wired where necessary" network access model. The network can then be rightsized by eliminating unused Ethernet switch ports and thereby reducing operating costs.

802.11n enables the use of wireless as a primary connection with speed and reliability comparable to a wired LAN. It also increases performance by utilizing techniques such as channel bonding, block acknowledgement and MIMO radios. Advanced antenna technology also increases range and reliability.

The key to ensuring wire-like performance and reliability is Aruba's unique Adaptive Radio Management and spectrum analysis* capabilities, which manage the 2.4-GHz and 5-GHz radio bands to deliver maximum client performance while mitigating any RF interference.

The multifunction AP-124 and AP-125 can be configured through the Mobility Controller to provide WLAN access with part-time air monitoring, dedicated air monitoring for wireless IPS and spectrum analysis, Remote AP (RAP) functionality or secure enterprise mesh. The AP-124 and AP-125 feature dual 100/1000BASE-T Ethernet interfaces and operate from standard 802.3af power-over-Ethernet (PoE) sources.



APPLICATION

- 802.11n indoor AP designed for maximum deployment flexibility in high-density environments that require above-ceiling or enclosure-based installations.

OPERATING MODE

- 802.11a/b/g/n AP, air monitor (AM) and Remote AP (RAP)
- Spectrum monitor, AM and RAP
- AM and RAP
- Remote AP
- Secure enterprise mesh

RADIOS

- Software-configurable dual radio capable of supporting 2.4 GHz and 5 GHz

RF MANAGEMENT

- Automatic transmit power and channel management control with auto coverage hole correction via Adaptive Radio Management (ARM)
- Spectrum analysis* remotely scans the 2.4-GHz and 5-GHz radio bands to provide increased visibility into non-802.11n RF interference sources and their effect on 802.11n channel quality.

ADVANCED FEATURES

- Integrated RAP, secure enterprise mesh point or portal, and wireless intrusion detection and prevention
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys
- SecureJack-capable for secure tunneling of wired Ethernet traffic

WIRELESS RADIO SPECIFICATIONS

- AP type: 3x3 multiple input/multiple output (MIMO)
- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835 GHz
 - 5.150 to 5.250 GHz
 - 5.250 to 5.350 GHz
 - 5.470 to 5.725 GHz
 - 5.725 to 5.850 GHz
- Available channels: Controller-managed, dependent upon configured regulatory domain
- Supported radio technologies:
 - 802.11b: Direct-sequence spread-spectrum (DSSS)
 - 802.11a/g/n: Orthogonal frequency division multiplexing (OFDM)
 - 802.11n: 3x3 MIMO with 2 spatial streams
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum transmit power:
 - 2.4GHz: 23 dBm (limited by local regulatory requirements)
 - 5 GHz: 22 dBm (limited by local regulatory requirements)
- Maximum ratio combining (MRC) for improved receiver performance
- Association rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: MCS0 - MCS15 (6.5 Mbps to 300 Mbps)
- 802.11n high-throughput (HT) support: HT 20/40
- 802.11n packet aggregation: A-MPDU, A-MSDU

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ANTENNA

- AP-124: Three RP-SMA interfaces for external antenna support (supports up to 3x3 MIMO with spatial diversity)
- AP-125: Integrated, tri, omni-directional multiband dipole antenna elements (supports up to 3x3 MIMO with spatial diversity)
- AP-125 antenna maximum gain:
 - 2.4 GHz-2.5 GHz/3.2 dBi
 - 5.150 GHz- 5.875 GHz/5.2 dBi

POWER

- 48 V DC 802.3af or 802.3at or PoE+
- 5 V DC for external AC supplied power (adapter sold separately)
- Maximum power consumption: 16 watts

INTERFACES

- Network:
 - 2 x 100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
 - Accepts 48 V DC 802.3af or 802.3at or PoE+ interoperable Power-over-Ethernet (PoE-PD) on either port
- Antenna (model AP-124 only):
 - 3 x RP-SMA antenna interfaces (supports up to 3x3 MIMO with spatial diversity)
- Other:
 - 1 x RJ-45 console interface

MOUNTING

- Standard:
 - Wall
 - Tool-less ceiling tile rail (15/16")
- Optional mounting kit:
 - Desk stand & wall outlet mount plate
 - Solid wall stand-off
 - Ceiling tile rail (15/16" & 9/16" recessed or non-recessed)
- Security:
 - Kensington security lock point (model AP-125 only)

MECHANICAL

- Dimensions/weight:
 - 124 mm x 130 mm x 51 mm (4.9" x 5.13" x 2.0")
 - 0.42 kg (15 oz)

ENVIRONMENTAL

- Operating:
 - Temp: 0° to 50° C (32° to 122° F)
 - Humidity: 5 to 95% non-condensing
- Storage and Transportation Temperature Range:
 - Temp: -40° to +70° C (-40° to +158° F)

REGULATORY

- FCC Part 15
- Industry of Canada
- MIC
- Anatel
- NOM/COFETEL
- SRRCC / CCC
- GS Mark
- CE Mark
- R&TTE Directive - 1995/5/EC
- Low Voltage Directive - 72/23/EEC
- EN 300 328
- EN 301 893
- EN 301 489
- UL/IEC/EN 60950-1:2001
- CB, cULus
- AS/NZS 4268, 4771
- UL2043 Compliant

For more country-specific regulatory information, and approvals, please see your Aruba representative.

CERTIFICATIONS

- Wi-Fi certified: 802.11a/b/g/n
- FIPS 140-2 (when operated in FIPS mode)

WARRANTY

- Limited lifetime warranty



ORDERING INFORMATION

Part number	Description
AP-124	Aruba 124 AP (802.11a/n + b/g/n)
AP-125	Aruba 125 AP (802.11a/n + b/g/n)
AP-AC-NA-2	AC Power Adapter Kit - North America
AP-AC-JPN-2	AC Power Adapter Kit - Japan
AP-AC-UK-2	AC Power Adapter Kit - United Kingdom
AP-AC-IT-2	AC Power Adapter Kit - Italy
AP-AC-EC-2	AC Power Adapter Kit - Schuko
AP-AC-AUS-2	AC Power Adapter Kit - Australia
AP-AC-LA-2	AC Power Adapter Kit - North America 2 Prong Version
AP-AC-CHN-2	AC Power Adapter Kit - China
AP-AC-IN-2	AC Power Adapter Kit - India
AP-AC-KOR-2	AC Power Adapter Kit - Korea
AP-120-MNT	Aruba 120 Family Wireless Access Point desktop/wall/ceiling mounting kit
AP-120-MNT-WJ	Mounting hardware kit and product enclosure to facilitate secure wall or ceiling mounting of an Aruba AP-121 or AP-125 access point to a standard North American or BS telecom/data port wall gang box, or to a 15/16" or 9/16" ceiling tile rail.
AP-120-MNT-CV	Cabling cover mounting kit to facilitate tamper-proof mounting of an Aruba AP-121 or AP-125 access point.
AP-ANT-xx	Detachable antennas (for use with AP-124 only)



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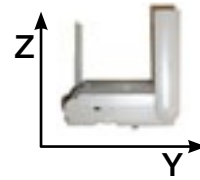
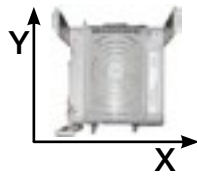
RF PERFORMANCE TABLE

	Max TX power per active TX chain (dBm)	RX Sensitivity (dBm)	Max TX power per active TX chain (dBm)	RX Sensitivity (dBm)
	2.4 GHz		5 GHz	
802.11b				
1Mbps	+18	-93		
2Mbps	+18	-91		
5.5Mbps	+18	-90		
11Mbps	+18	-88		
802.11a/g				
6Mbps	+17	-92	+17	-91
9Mbps	+17	-92	+17	-91
12Mbps	+17	-92	+17	-91
18Mbps	+17	-91	+17	-90
24Mbps	+17	-88	+17	-87
36Mbps	+17	-85	+16	-83
48Mbps	+16	-81	+15	-79
54Mbps	+13	-79	+13	-77
802.11n HT20				
MCS0	+18	-92	+17	-91
MCS1	+18	-91	+17	-89
MCS2	+18	-89	+17	-87
MCS3	+18	-85	+17	-84
MCS4	+18	-82	+17	-80
MCS5	+17	-78	+17	-76
MCS6	+13	-76	+13	-74
MCS7	+11	-75	+12	-72
MCS8	+18	-90	+17	-89
MCS9	+18	-89	+17	-87
MCS10	+18	-87	+17	-85
MCS11	+18	-83	+17	-82
MCS12	+18	-80	+17	-78
MCS13	+17	-76	+17	-74
MCS14	+13	-74	+13	-72
MCS15	+11	-73	+12	-70
802.11n HT40				
MCS0	+18	-89	+17	-88
MCS1	+18	-87	+17	-85
MCS2	+18	-84	+17	-83
MCS3	+18	-84	+17	-80
MCS4	+18	-78	+17	-77
MCS5	+17	-74	+17	-72
MCS6	+13	-72	+13	-70
MCS7	+11	-71	+12	-67
MCS8	+18	-87	+17	-86
MCS9	+18	-85	+17	-83
MCS10	+18	-82	+17	-81
MCS11	+18	-82	+17	-78
MCS12	+18	-76	+17	-75
MCS13	+17	-72	+17	-70
MCS14	+13	-70	+13	-68
MCS15	+11	-69	+12	-65

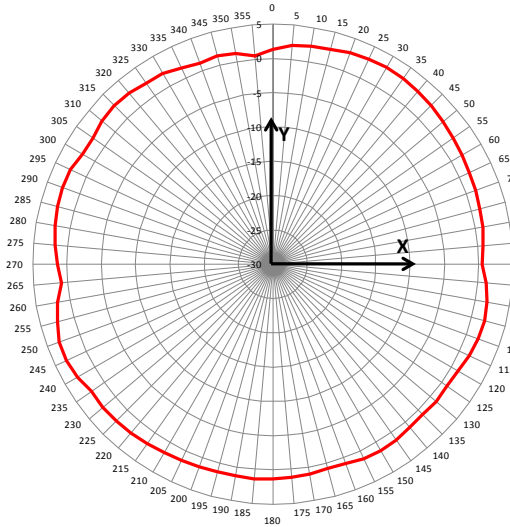
Maximum capability of the hardware provided. Maximum transmit power will be limited by local regulatory settings.

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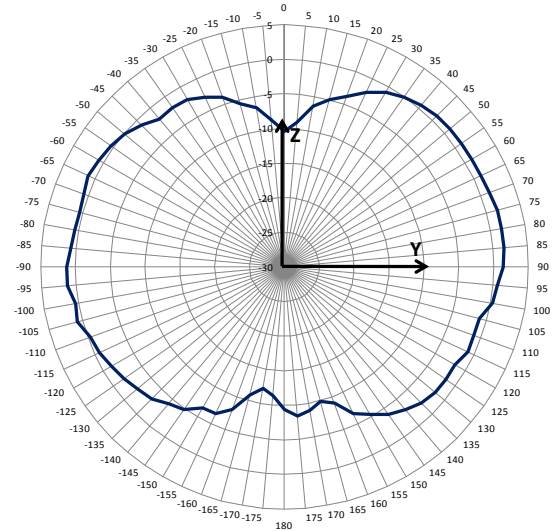
ANTENNA PLOTS



2.45 GHz

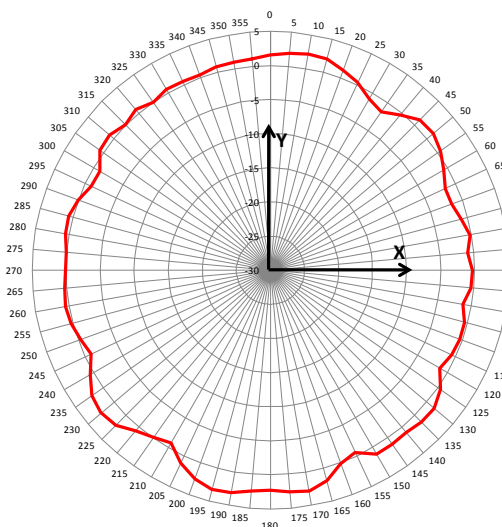


H-Plane

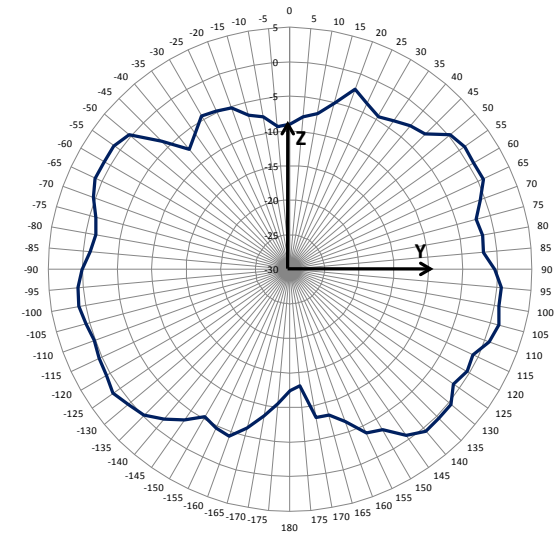


E-Plane

5.5 GHz



H-Plane



E-Plane



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