ARUBA AP-124 AND AP-125 ACCESS POINTS

The Aruba AP-124 and AP-125 are high-performance 802.11n (3x3) MIMO, dual-radio (concurrent 802.11a/n + b/g/n) indoor wireless access points capable of delivering combined wireless data rates of up to 600Mbps. These multi-function access points provide wireless LAN access, air monitoring, and wireless intrusion detection and prevention over the 2.4-2.5GHz and 5GHz RF spectrum. The access points work in conjunction with Aruba Mobility Controllers to deliver high-speed, secure user-centric network services in education, enterprise, finance, government, healthcare, and retail applications.

To protect access points installed in unsecured areas, or during use in distributed encryption modes of operation, security credentials can be stored in a TPM microcontroller. The TPM specification was defined by the TPM subgroup of the Trusted Computing Group (TCG) for the secure generation and storage of cryptographic keys, and is widely implemented on devices for which high security is paramount. The TPM vault protects the access point against attack and physical theft.

The Aruba AP-120 family feature dual 10/100/1000 Ethernet interfaces and operate from standard 802.3af as well as high-power PoE+ and 802.3at Power over Ethernet (PoE) sources. The AP-124 features detachable antenna interfaces while the AP-125 features integral 3x3 MIMO dual-band antenna elements.

APPLICATION
- High-performance 802.11n enterprise campus or branch office applications, high-performance secure-jack, indoor use.

OPERATING MODE
- Multi-service concurrent 802.11a/n + b/g/n WLAN, 802.11a/b/g/n air monitor, Hybrid combination of WLAN/AM and Remote AP or secure Mesh Point. Configurable to support 802.11n draft 2.0 HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n

RADIOS
- Dual Radio - software configurable to support 2.4-2.5 GHz + 5 GHz

RF MANAGEMENT
- Automatic transmit power and channel management control with auto coverage hole correction via ARM

MOBILITY SERVICE DELIVERY
- Virtual AP Services:
  - Supports up to 32 SSIDs per access point
  - Multiple captive portals per SSID
  - Supports any combination of encryption/authentication type per SSID
  - Session level QoS
  - VLAN load balancing
  - Guest account creation/management
- Voice Services:
  - Wireless Multi-media QoS (WMM)
  - 802.1p and DSCP to WMM AC tagging
  - Upstream traffic prioritization
  - Call Admission Control (CAC)
  - Traffic classification/session bandwidth reservation (T-SPEC/TCLAS)
  - Unscheduled power save delivery (U-APSD)

- Stateful session awareness (soft voice client QoS):
  - SIP
  - NOE
  - Cisco Skinny
  - Vocera
- Spectralink Voice Prioritization (SVP)
- Support for Proxy-ARP and multicast filtering
- Battery Boost
- Priority queuing
- Voice-aware scanning support in ARM

802.11A RADIO SPECIFICATIONS
- Operating Frequency: 5.150– 5.950 GHz*
- Available Channels: Mobility Controller-managed, dependent upon configured regulatory domain
- Modulation: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power:
  - 20 dBm / 100 mW*
  - Configurable in increments of 0.5 dBm
- Association Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

802.11B RADIO SPECIFICATIONS
- Operating Frequency: 2.4–2.5 GHz
- Available Channels: Mobility Controller-managed, dependent upon configured regulatory domain
- Modulation: Direct-Sequence Spread-Spectrum (DSSS)
- Transmit Power:
  - 20 dBm / 100 mW*
  - Configurable in increments of 0.5 dBm
- Association Rates (Mbps): 11, 5.5, 2, 1 with automatic fallback

ARUBA AP-124 AND AP-125 ACCESS POINTS

802.11G RADIO SPECIFICATIONS
- Operating Frequency: 2.4–2.5 GHz
- Available Channels: Mobility Controller-managed, dependent upon configured regulatory domain
- Modulation: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power:
  - 20 dBm / 100 mW*
  - Configurable in increments of 0.5 dBm
- Association Rates (Mbps): 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

802.11N RADIO SPECIFICATIONS
- Operating Frequency: 2.4–2.5 GHz and 5.150 GHz – 5.950 GHz*
- Available Channels: Mobility Controller-managed, dependent upon configured regulatory domain
- Modulation: 802.11n draft 2.0
- Transmit Power:
  - 20 dBm / 100 mW*
  - Configurable in increments of 0.5 dBm
- Association Rates (Mbps): MSC0 - MSC15 (6.5Mbps - 300Mbps)
- Radio: 2x3, 3x3 Multiple-In, Multiple-Out (MIMO)
- High-Throughput (HT) Support: HT 20/40
- Packet Aggregation: A-MPDU, A-MSDU

AVAILABLE CHANNELS 802.11A/B/G AND 802.11N
- *Centrally managed by Mobility Controller, based on configured regulatory domain

ANTENNA
- AP-124: Tri (3x3), RP-SMA interfaces for external antenna support (supports up to 3x3 MIMO with spatial diversity)
- AP-125: Integral, Tri (3x3), Omni-directional multi-band dipole antenna elements (supports up to 3x3 MIMO with spatial diversity)
- AP-125 Antenna Max Gain:
  - 2.4 GHz-2.5 GHz / 3.2 dBi
  - 5.150 GHz- 5.875 GHz / 5.2 dBi

INTERFACES
- Network:
  - 2 x 10/100/1000Base-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX
  - 48 V DC 802.3af or 802.3at or PoE + interoperable Power-over-Ethernet (PoE) with intelli-source PSE sourcing intelligence (both ports).
- 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

POWER
- 48 V DC 802.3af or 802.3at or PoE + interoperable Power-over-Ethernet (PoE) with intelli-source PSE sourcing intelligence (both ports).
- 5 V DC for external AC supplied power (adapter sold separately)

MOUNTING
- Standard:
  - Desk-top (stand)
  - Wall
  - Tool-less Ceiling tile rail (15/16”)
- Optional mounting kit:
  - Solid wall stand-off
  - Ceiling tile rail (15/16” & 9/16” recessed or non-recessed)
- Security:
  - Kensington security lock point

MECHANICAL
- Dimensions / Weight:
  - 4.9” x 5.13” x 2.0“ (124 mm x 130 mm x 51 mm)
  - 15oz (0.42 Kgs)

ENVIRONMENTAL
- Operating:
  - Temp: 0° to 50° C (32° to 122° F)
  - Humidity: 5 to 95% non-condensing
- Storage:
  - Temp: 0° to 70° C (32° to 158° F)

REGULATORY
- FCC Part 15
- Industry of Canada
- VCCI
- MIC
- Anatel
- NOM/COFETEL
- SRRC
- 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
- Medical EN 60601-1, -2
- UL2043 Listed

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

CERTIFICATIONS
- Planned for Wi-Fi certification for 802.11a/b/g/n

WARRANTY
- 90 days parts/labor**

PART NUMBERS
- Access Point:
  - AP-124
  - AP-125
- Accessories:
  - AP-120-MNT (mount kit)
  - AP-ANT-1 to 14 (detachable antennas) use with AP-120 only
- AC Power Adapters
  - AP-AC-NA-2 (North America)
  - AP-AC-JPN-2 (Japan)
  - AP-AC-UK-2 (United Kingdom)
  - AP-AC-IT-2 (Italy)
  - AP-AC-EC-2 (Schuko)
  - AP-AC-AUS-2 (Australia)
  - AP-AC-LA (N. Amer - 2 prong)
  - AP-AC-CHN-2 (China)
  - AP-AC-IN-2 (India)
  - AP-AC-KOR-2 (Korea)

**Extended with support contract

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