Aruba AP-60 and AP-61 Access Points

ARUBA AP-60 AND AP-61 ACCESS POINTS

The Aruba AP-60 and AP-61 are single radio (dual-band 802.11a or b/g) high-performance indoor wireless access points, capable of supporting multiple functions including WLAN access, air monitoring/wireless intrusion detection and prevention, and secure enterprise mesh across the 2.4-2.5 GHz and 5 GHz RF spectrums. The Aruba AP-60 and AP-61 access points support diverse deployment options, delivering secure enterprise mobility services and applications in enterprise, campus and branch office environments, and remotely over public or private networks as a Remote Access Point. Centrally managed from an Aruba controller, the AP-60 and AP-61 empower the network administrator with unparalleled control over services, security and deployment models. The AP-60 supports external antennas through dual, detachable antenna interfaces and the AP-61 supports dual, integral, high-performance omni-directional multi-band antennas.

APPLICATION
- High-density enterprise campus and branch office. Remote office, WLAN access and air monitoring, Remote Access Point, secure mesh point/portal. Indoor applications.

OPERATING MODE
- Multi-service 802.11a/b/g WLAN, 802.11a/b/g air monitor, hybrid combination of WLAN/AM and Remote AP

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

WIRELESS RADIO SPECIFICATIONS
- AP type: Single-radio, dual-band
- Supported Frequency Bands (country-specific restrictions apply):
  - 2.400 - 2.4835 GHz
  - 5.150 - 5.250 GHz
  - 5.250 - 5.350 GHz
  - 5.470 - 5.725 GHz
  - 5.725 - 5.850 GHz
- Available Channels: Controller-managed, dependent upon regulatory domain
- Modulations:
  - 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
  - 802.11a/g: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power: Configurable in increments of 0.5 dBm
- Association Rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11 with automatic fallback
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 with automatic fallback

ANTENNA
- AP-60: Dual, RP-SMA interfaces for external antenna support (supports spatial diversity)
- AP-61: Integral, dual, omni-directional multi-band dipole (supports spatial diversity),
  - Gain:
    - 2.4 GHz-2.5 GHz / 2.8 dBi
    - 5.150 GHz-5.350 GHz / 3.9 dBi
    - 5.950 GHz / 4.0 dBi

INTERFACES
- Network:
  - 1 x 10/100Base-T Ethernet (RJ45) , Auto-sensing link speed and MDI/MDX
  - 48 V DC IEEE compliant 802.3af Power-over-Ethernet (PoE)
  - Serial-over-Ethernet (SoE)
- Power:
  - 1 x 5 V DC up to 1.5 A (for external AC adapter power)
- Antenna: (AP-60 only)
  - 2 x RP-SMA multi-band antenna interfaces

POWER
- 48 V DC IEEE compliant 802.3af Power-over-Ethernet (PoE)
- 5 V DC for external AC supplied power (adapter sold separately)
- Maximum power consumption: 10 Watts

MOUNTING
- Standard:
  - Desk-top (stand)
  - Wall
- Optional mounting kit:
  - Secure wall
  - Ceiling tile rail (15/16")
- Security:
  - Security screw
  - Kensington security lock point

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°F to +158° F)

ARUBA AP-60 AND AP-61 ACCESS POINT

MECHANICAL

AP-60
- Dimensions/Weight:
    - 6.25" x 3.9" x 1.1"
    - 159 mm x 99 mm x 28 mm
    - 0.5 lbs/0.23 Kgs
- Dimensions/Weight (Shipping):
    - 11.3" x 5.6" x 1.6"
    - 287 mm x 142 mm x 41 mm
    - 1.0 lbs/0.45 Kgs

AP-61
- Dimensions/Weight:
    - 8.5" x 3.9" x 1.1"
    - 216 mm x 99 mm x 28 mm
    - 0.6 lbs/0.27 Kgs
- Dimensions/Weight (Shipping):
    - 11.3" x 5.6" x 1.6"
    - 287 mm x 142 mm x 41 mm
    - 1.1 lbs/0.5 Kgs

REGULATORY
- FCC Part 15
- Industry of Canada
- VCCI
- MIC
- PSE mark – adapters/cords
- 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
- Wi-Fi Certified: 802.11a/b/g

WARRANTY
- Limited lifetime warranty

RF PERFORMANCE TABLE

	Max TX power (dBm)	RX Sensitivity (dBm)
802.11b 2.4GHz		
1Mbps	+20.0	-95.0
2Mbps	+20.0	-93.0
5.5Mbps	+20.0	-92.0
11Mbps	+20.0	-90.0
802.11g 2.4GHz		
6Mbps	+20.0	-92.0
9Mbps	+20.0	-91.0
12Mbps	+20.0	-90.0
18Mbps	+20.0	-89.0
24Mbps	+20.0	-85.0
36Mbps	+20.0	-82.0
48Mbps	+18.0	-77.0
54Mbps	+17.0	-75.0
802.11a 5GHz		
6Mbps	+20.0	-90.0
9Mbps	+20.0	-90.0
12Mbps	+20.0	-88.0
18Mbps	+20.0	-87.0
24Mbps	+20.0	-83.0
36Mbps	+20.0	-80.0
48Mbps	+18.0	-74.0
54Mbps	+17.0	-72.0

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

ORDERING INFORMATION

Part number	Description
AP-60	Aruba 60 Wireless Access Point
AP-61	Aruba 61 Wireless Access Point
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-60-MNT	Aruba 60/61 Wireless Access Point Wall / Ceiling Mounting Kit
AP-ANT-xx	Detachable antennas

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