

## The Aruba AP 60 and 61

Ideal for dense AP deployments, the Aruba AP 60 and 61 access points are dual-function, single radio 802.11a or b/g access points designed for use only with Aruba mobility controllers. Each AP provides dedicated or shared air monitoring, giving administrators a full view of and control over the 2.4 and 5 GHz RF spectrums and eliminating the need for a discrete network of RF sensors. The Aruba AP 60 supports dual-band detachable antennas while the AP 61 provides built-in 90-degree rotational dual omni-directional high-gain antennas.



### Antennas

- AP 60: Dual, diversity supporting reverse polarity SMA (RP-SMA) detachable antenna interfaces suitable for single or tri-band detachable antennas of various pattern types and gains.
- AP 61: Integral, diversity supporting dual, tri-band omni-directional high gain antennas with 90 degree movement
  - AP 61 Integral antenna gain
    - ~ 2.4–2.5 GHz / 2.8dBi
    - ~ 5.150–5.350 GHz / 3.9dBi
    - ~ 5.6 GHz / 4 dBi

### Radio Specs - 802.11A

- Frequency band
  - 5.150 ~ 5.250 GHz (lower band)  
4 channels (for AP 61 only)
  - 5.250 ~ 5.350 GHz (middle band)  
4 channels
  - 5.725 ~ 5.825 GHz (higher band)  
4 channels
- Radio technology: orthogonal frequency division multiplexing (OFDM)
- Modulation type – BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator/professional installer
- MAC – CSMA/CA with ACK
- Operating channels:
  - AP 60: US & Canada: 8 (12 for AP 61)
  - AP 60: ETSI: 13 (13 for AP 61)
  - AP 61: Japan: 5 (Unavailable on AP 60)
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel

### Radio Specs - 802.11B

- Frequency band
  - 2.4 ~ 2.483GHz (US, Canada & ETSI)
  - 2.4 ~ 2.497GHz (Japan)
- Radio technology – direct sequence spread spectrum (DSSS)
- Modulation type – CCK, BPSK, QPSK
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - 60/61: US & Canada: 11
  - 60/61: ETSI: 13
  - AP60: Japan: 13 (14 for AP 61)
- Data rates: 1, 2, 5.5, 11 Mbps per channel

### Radio Specs - 802.11G

- Frequency band
  - 2.412 ~ 2.462GHz (US, Canada)
  - 2.412 ~ 2.472GHz (ETSI)
  - 2.412 ~ 2.484GHz (Japan)
- Radio technology – OFDM
- Modulation type – CCK, BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - US & Canada: 11
  - ETSI: 13
  - Japan: 14
- Data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel
- Multi-mode radio band 802.11a or 802.11b/g selectable via software

Complete country list available at:  
<http://www.arubanetworks.com/products/aps/certification>

### Manageability

- Management of all 802.11 parameters
- Network-wide AP management via:
  - CLI
  - WEB GUI
  - SNMPv3
- Access point profiles
- Management by:
  - Geographical location
  - BSSID
  - Radio type
- Encryption support (AP and Switch)
  - 40-bit / 64-bit / 128-bit / 152-bit WEP, TKIP, AES

### AP60 Physical (H/W/D)

- 159 x 99 x 31mm (6.26 x 3.90 x 1.22 in.)
- Weight 198 grams (12.2 oz.)

### AP61 Physical (H/W/D)

- 216 x 99 x 31mm (8.50 x 3.90 x 1.22 in.)
- Weight 255 grams (13.6 oz.)

#### Interfaces (Electrical)

- 1 x 10/100 Base-TX auto-sensing Ethernet RJ-45 interface
  - Auto-sensing MDI/MDX
  - Serial and power over Ethernet – 48V DC / 200mA power over Ethernet (802.3af compliant)
- 1 x 5V DC Power Interface

#### Interfaces (Mechanical)

- Standard Kensington MicroSaver security cable interface (not supplied)
- Wall and ceiling mount kit interface (optional – part number AP-60-MNT)

#### Visual Indicators (LEDS)

- (Ready) Power
- (Ethernet) link status / activity
- (Mode) 802.11a and b/g AP / air monitor mode

#### Power Requirements

- 5V DC / 2A supplied externally via optional – part number AC adapter kit
- 48V DC / 200mA power over Ethernet (802.3af compliant)
- External AC power or POE

#### Environmental

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

#### Standards

- Ethernet IEEE 802.3 / IEEE 802.3u
- Power-over-Ethernet IEEE 802.3af
- Wireless IEEE 802.11a/b/g

#### Safety

- CSA/NTRL (CSA 22.2 No. 950 & UL1950)
- EN60950 (TÜV/GS), IEC60950 (CB)
- UL2043 Plenum Rating

#### Electromagnetic Compliance

FCC Part 15 Class A, FCC Part 15 Class C 15.207/15.247  
FCC Part 15 Class E 15.407  
ICES-003 Class A  
RSS 210 (CAN)  
VCCI Class A  
EN 61000-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4  
EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11  
73/23/EEC and 89/336/EEC  
EN 55022, EN55024 (89/336/EEC)  
ETS 300 328 (89/336/EEC), ETS 301 489 (89/336/EEC)  
ETS 301 893  
AS/NZS 3548 Class A

#### Warranty

- 90 days parts/labor\*

#### Part Numbers

##### AP-60

Aruba 60 Access Point 802.11a or b/g

##### AP-61

Aruba 61 Access Point 802.11a or b/g

##### AP-60-MNT

Aruba 60 Access Point Wall / Ceiling Mounting Kit  
AP-60 Series (AC power adapter country kit variants)  
AP-AC-NA (North America)  
AP-AC-JPN (Japan)  
AP-AC-UK (United Kingdom)  
AP-AC-EC (Central Europe, Schuko)  
AP-AC-IT (Italy)

#### Antennas

Aruba offer a wide variety of antenna types suitable for use with the AP 60. Please contact your local sales representative for details.

