The Aruba AP 65

The Aruba 65 is Aruba's smallest, dual-radio thin architecture access point that provides concurrent operation of 802.11a and 802.11b/g services. Designed for use exclusively with Aruba mobility controllers, with its rear mounted Ethernet interface and integrated ceiling tile rail mounting point, the Aruba 65's self contained, low-profile design is ideally suited for discrete deployment applications. It can also be carried with a user for mobile edge access on the road. The Aruba 65 is a multi-purpose device that functions both as an access point and as an RF monitor—either independently or concurrently—across the 2.4 GHz and 5 GHz spectrums. The Aruba 65 supports an integral high-gain antenna for maximum multi-band coverage

Network Configuration

- Wireless Access Point (IEEE 802.11a/b/g)
- Air Monitor (IEEE 802.11a/b/g)

Antennas

- Dual, integral, tri-band, high-gain, omni-directional antennas with 180 degrees rotational movement. Non-detachable.
- Antenna Specifications
  - Gain
    - 2.4-2.5 GHz / 3.30 dBi
    - 5.150 GHz / 2.50 dBi
    - 5.350 GHz / 3.30 dBi
  - VSWR 1.5:1
  - Support for radio signal diversity

Radio Specs 5GHZ

IEEE 802.11a
- Frequency Bands Supported
  - 5.150 ~ 5.250GHz (low band), country specific
  - 5.250 ~ 5.350GHz (mid band), country specific
  - 5.470 ~ 5.725GHz (Europe), country specific
  - 5.725 ~ 5.825/5.850 GHz (high band), country specific
- 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:
  - US, Canada - 13
  - ETSI - up to 19
  - Japan – 8
- 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

Radio Specs 2.4GHZ

IEEE 802.11b
- Frequency Bands Supported
  - 2.400 ~ 2.4835/2.497 GHz (Global), channels country specific
- 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:
  - US, Canada - 11
  - ETSI – up to 13
  - Japan 14
- Data rates: 1, 2, 5.5, 11 Mbps per channel
- Multi-mode radio band 802.11a or 802.11b/g selectable via software

IEEE 802.11g
- Frequency Bands Supported
  - 2.400 ~ 2.4835 GHz (Global), channels country specific
- Radio technology: orthogonal frequency division multiplexing (OFDM)
- Modulation type – BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power – configurable by system administrator
- MAC – CSMA/CA with ACK
- Operating channels:
  - US, Canada - 11
  - ETSI - up to 13
  - Japan 13
- 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 as AP
- Network-wide AP management via:
  - CLI
  - WEB GUI
  - SNMP
- Access point profiles
- Management by:
  - Geographical location
  - BSSID
  - Radio type

Interfaces (Electrical)

- 1 x 10/100 Base-TX (RJ-45) auto-sensing Ethernet interface:
  - Auto-sensing MDI/MDX
  - PoE 48VDC / 220mA power over Ethernet (802.3af compliant)
  - Supports Serial over Ethernet
  - Rear Mounted
- 1 x 5V DC External Power Interface

Interfaces (Mechanical)

- 1 x Integrated ceiling tile rail snap-in mount (for 15/16" diameter rails). Located on rear of device
- 1 x Kensington locking interface

Visual Indicators (LEDS)

- (Ready) Power on/off/booting
- (Ethernet 0) link status / activity
- 802.11a + b/g Wireless Access Point
- 802.11a + b/g Wireless Air Monitor

Power Requirements

- External AC power or POE
- 5V DC / 2A supplied externally via optional country specific AC adapter kits
- 48V DC / 220mA power-over-Ethernet (802.3af compliant)

Device Dimensions (H/W/D)

- (antenna stowed)
  100 x 100 x 37mm (3.94 x 3.94 x 1.47 in.)
- (antenna extended 180 degrees)
  167 x 100 x 37mm (6.58 x 3.94 x 1.47 in.)
- Weight – TBD

Shipping Dimensions (H/W/D)

- 100 x 100 x 37mm (3.94 x 3.94 x 1.47 in.)
- Weight – TBD

Environmental

- Temperature
  - Operating: 0 to 50 ℃ (32 to 122 ℉)
  - Storage: -10 to 70 ℃ (14 to 158 ℉)
- Humidity 5% to 95% (non-condensing)
- Altitude - 8,000ft @ 28℃ (82.4℉)

Mounting Options

- Wall, ceiling, cube or Desk Stand
- Enclosure supports integrated rear mounted snap-in 15/16" ceiling tile rail guides

Standards

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

Radio Approvals

- FCC DOC Part 15 Class B (digital portion)
- FCC Part 15 Subpart C 15.247
- FCC Part 15 Subpart E 15.407
- ICES-003 Class B
- RSS 210 (Canada)
- VCCI Class B (Japan)
- Telec 2.4, Channel 14 and 5 GHz approved (Japan)
- CE marked with NB letter of opinion for RTTE
  - ETS 300 328 2.4 GHz
  - ETS 301 893 5.4 GHz
  - ETS 301 489 EMC
- MIC Korea
- SRRC (China)
- AS/NZS 3548 Class B
- AS/NZS4771 (C-tick)

Safety Approvals

- cULus listed
- PSE Mark (AC Power Supply)
- IEC 60950 CB certificate and report
- UL Listed (UL60950)
- UL Listed (Canadian Electrical Code/CSA 22.2 No. 60950)
- EN60950 / IEC60950
- UL Listed (UL2043)
- EN 60601-1-1 & EN 60601-1-2: (MD compliance)

Warranty

- 1 year limited parts/labor*

Part Numbers

AP-65

Aruba 65 802.11a/b/g Wireless Access Point

AP-65-MNT

Aruba 65 Wall, Secure Wall and Desktop Mounting Kit

AP-65 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)

*Extended with support contract