



ARUBA AP-70 ACCESS POINT

The Aruba AP-70 is a dual-radio 802.11a+b/g high-performance indoor wireless access point capable of supporting a wide range of 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 AP-70 access point supports diverse deployment options, delivering secure enterprise mobility services and applications in enterprise and campus environments, branch offices, retail spaces, and to remote locations over public or private networks as a Remote Access Point. Centrally managed from an Aruba mobility controller, the AP-70 empowers the network administrator with extensive control over services, security and deployment models. The AP-70 supports unparalleled interface flexibility in an access point, supporting dual 10/100 Ethernet Interfaces, redundant 802.3af PoE sourcing, and a USB 2.0 interface for service extension. The AP-70 features onboard dual, integral, high-performance omni-directional multi-band antennas and also supports external antennas through quad, detachable antenna interfaces.



APPLICATION

- High-performance enterprise and campuses, branch offices and retail spaces where flexibility in interfaces is required. Remote access and secure-jack applications. 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, all with secure jack.

RF MANAGEMENT

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

WIRELESS RADIO SPECIFICATIONS

- AP type: Dual-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

- Integral, dual, omni-directional multi-band dipole (supports spatial diversity)
 - Gain:
 - 2.4 GHz-2.5 GHz / 4.46 dBi
 - 5.150 GHz / 7.21 dBi
 - 5.350 GHz / 6.49 dBi
 - 5.850 GHz / 5.23 dBi
- Quad, RP-SMA interfaces (2 per radio) for external antennas

INTERFACES

- Network:
 - 2 x 10/100Base-T Ethernet (RJ45) , Auto-sensing link speed and MDI/MDX
 - 48 V DC IEEE compliant 802.3af Power-over-Ethernet (PoE) (load sharing over both ports)
 - Serial-over-Ethernet (SoE) (primary port)
- Power:
 - 1 x 5 V DC up to 2.5 A (for external AC adapter power)
- Antenna:
 - 4 x RP-SMA antenna interfaces (2 per radio)

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: 12 Watts

MOUNTING

- Standard:
 - Desktop
 - 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° to +158° F)

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MECHANICAL

- Dimensions/Weight:
 - Antenna Stowed:
 - 7.4" x 6.8" x 1.4"
 - 188 mm x 173 mm x 36 mm
 - 1.15 lbs/0.52 Kgs
 - Antenna Extended 180°:
 - 7.4" x 11.7" x 1.4"
 - 188 mm x 295 mm x 36 mm
- Dimensions/Weight (Shipping):
 - 10.1" x 10.4" x 4.1"
 - 257 mm x 264 mm x 104 mm
 - 2.0 lbs/0.91 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
- FIPS 140-2 (when operated in FIPS mode)

WARRANTY

- Limited lifetime warranty



RF PERFORMANCE TABLE

	Max TX power (dBm)	RX Sensitivity (dBm)
802.11b 2.4 GHz		
1 Mbps	+18.0	-92.0
2 Mbps	+18.0	-91.0
5.5 Mbps	+18.0	-89.0
11 Mbps	+18.0	-87.0
802.11g 2.4 GHz		
6 Mbps	+18.0	-91.0
9 Mbps	+18.0	-90.0
12 Mbps	+18.0	-89.0
18 Mbps	+18.0	-86.0
24 Mbps	+18.0	-83.0
36 Mbps	+17.0	-80.0
48 Mbps	+16.0	-75.0
54 Mbps	+15.0	-73.0
802.11a 5 GHz		
6 Mbps	+17.0	-90.0
9 Mbps	+17.0	-90.0
12 Mbps	+17.0	-89.0
18 Mbps	+17.0	-88.0
24 Mbps	+17.0	-82.0
36 Mbps	+15.0	-79.0
48 Mbps	+13.0	-74.0
54 Mbps	+11.0	-72.0

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

ORDERING INFORMATION

Part number	Description
AP-70	Aruba 70 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-70-MNT	Aruba 70 Wireless Access Point Wall / Ceiling Mounting Kit
AP-70-MNT-M	Aruba 70 Access Point Wall/Ceiling Mounting Kit (metal parts)
AP-ANT-xx	Detachable antennas

