



ARUBA AP-80M ACCESS POINT

The Aruba AP-80M is a fully-hardened, outdoor-rated, dual-radio (dual-band concurrent 802.11a plus b/g) high-performance wireless access point, capable of supporting multiple functions including WLAN access, air monitoring/wireless intrusion detection and prevention, high-performance secure outdoor enterprise mesh and LAN bridging across the 2.4-2.5 GHz and 5 GHz RF spectrums. The AP-80M access point supports diverse deployment options, delivering secure user-centric enterprise network services and applications around outdoor campus common areas, parking lots, and security guard points, as well as in storage yards, indoor/outdoor warehousing and industrial production environments. Centrally managed from an Aruba mobility controller, the AP-80M empowers the network administrator with unparalleled control over services, security and deployment models. The AP-80M features dual, detachable antenna interfaces and is fully outdoor rated, It is designed for deployment in harsh environments, able to withstand exposure to extreme high or low temperatures, moisture and precipitation, and fully sealed for protection from airborne contaminants. The AP-80M is an ideal enterprise mesh point for delivering LAN bridging or wireless mesh services.



APPLICATION

- Outdoor enterprise campuses, warehouses, container / transportation yards, industrial production facilities. Indoor / outdoor deployments in harsh environments.

OPERATING MODE

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

RADIOS

- Dual radio - software configurable to 802.11a and 802.11b/g

RF MANAGEMENT

- Automatic transmit power and channel management control with auto coverage hole correction via Adaptive Radio Management (ARM)

MOBILITY SERVICE DELIVERY

- Virtual AP Services:
 - Supports up to 16 SSIDs per access point
 - Multiple captive portals per SSID
 - Supports any combination of encryption / authentication types 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 GHz – 5.950 GHz*
- Available Channels: Mobility controller-managed, dependent upon configured regulatory domain
- Modulation: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power: 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 GHz – 2.5 GHz
- Available Channels: Mobility controller-managed, dependent upon configured regulatory domain
- Modulation: Direct-Sequence Spread-Spectrum (DSSS)
- Transmit Power: Configurable in increments of 0.5 dBm
- Association Rates (Mbps): 11, 5.5, 2, 1 with automatic fallback

802.11G RADIO SPECIFICATIONS

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

AVAILABLE CHANNELS 802.11A/B/G

- Centrally managed by mobility controller, based on configured regulatory domain

ANTENNA

- Dual, N-type female interfaces (1 x 2.4 GHz, 1 x 5 GHz) for external antenna support

* Mobility controller-managed, dependent upon configured regulatory domain

ARUBA AP-80M ACCESS POINT

INTERFACES

- On access point:
 - 1 x 10/100Base-T Ethernet (8-pin male (pole) M12 circular DIN connector Au), auto-sensing link speed and MDI/MDX
 - 48 V DC / 30 Watt Power-over-Ethernet (PoE)
- Power:
 - Supplied via AC power injector
- AP port:
 - (PoE-AP) 1 x 10/100Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
 - 48 V DC / 30 Watt Power-over-Ethernet (PoE)
- Network port:
 - 1 x 10/100Base-T Ethernet (RJ-45) , Auto-sensing link speed and MDI/MDX
- Antenna:
 - 2 x N-type female antenna interfaces (1 x 2.4 GHz, 1 x 5 GHz)
- Other:
 - 1 x electrical safety / ground terminal point
 - 1 x 5.5 V DC BNC interface (used for RSSI level measurement)

POWER

Supplied via power injector

- Input:
 - 100-240 V AC / 1.5 A
- Output:
 - 48 V DC up to 1.2 A 30 Watt peak Power-over-Ethernet (PoE) via 8-PIN DIN interface (power adapter supplied as standard)

MOUNTING

- Standard:
 - Articulating adjustable pole or mast mount kit
- Optional mounting kit:
 - Wall mount

MECHANICAL

- Dimensions/Weight:
 - 7.6" x 7.6" x 2.8"
 - 193 mm x 193 mm x 71 mm
 - 3.5lbs/1.59Kgs
- Dimensions/Weight (Shipping):
 - 19.7" x 11.8" x 6.7"
 - 500 mm x 300 mm x 170 mm
 - 13.9 lbs/6.32 Kgs

ENVIRONMENTAL

- Operating:
 - Temp: -30° to 55° C (-22° to 131° F)
 - Humidity: 0 to 95% non-condensing
- Storage:
 - Temp: -40° to 80° C (-40° to 176° F)

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
- ATEX Zone 2
- IEC 60529 IP68

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

CERTIFICATIONS

- Wi-Fi Certified: 802.11a/b/g

WARRANTY

- 90 days parts/labor

PART NUMBERS

- Access Point:
 - AP-80M
- Accessories:
 - AP-80-MNT (wall mount kit)
 - AP-CBL-1 (10' N-type Female to N-type male LMR 400 antenna extension cable)
 - AP-CBL-2 (80' PoE adapter to AP cable)
 - AP-LAR-1 (antenna interface lightning arrester, one required per port)
 - AP-ANT-80 to 89 (detachable antennas)



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