



## ARUBA AP-80SB AND AP-80MB ACCESS POINTS

The Aruba AP-80SB and AP-80MB access points are the ideal wireless solution for harsh outdoor environments where conventional Wi-Fi access points or wireless bridges cannot be deployed. The AP-80SB and AP-80 MB are dual-radio 802.11a/b/g access points with wireless backhaul capability that can also function as secure WDS point-to-point or point-to-multipoint bridges. Designed for extreme, all-weather deployment, the AP-80SB and AP-80MB offer a flexible solution that supports a variety of applications using attachable antennas and an integrated PPP-over-Ethernet client to enable remote deployments over service provider networks.



### APPLICATION

- Outdoor enterprise campus WDS Ethernet LAN bridging. Supports secure point-to-point and point-to-multipoint (AP-80MB as root bridge) applications. Outdoor harsh environment applications.

### OPERATING MODE

- Multi-service 802.11 a+b/g WLAN with wireless backhaul, point-to-point WDS bridge, point-to-multipoint WDS bridge (AP-80MB)

### RADIOS

- Dual radio - 802.11a and 802.11b/g

### RF MANAGEMENT

- Manual

### MOBILITY SERVICE DELIVERY

- WDS Bridging Services:
  - Bridge/Root-Bridge Mode
  - Point-to-Point
  - Point-to-Multipoint
  - WEP/TKIP/AES Encryption
  - Turbo Mode
- AP Services:
  - Virtual AP
  - Supports any combination of encryption / authentication types per SSID
  - WMM
- Security:
  - WPA/WPA-PSK
  - WPA2/WPA2-PSK
  - Mixed Mode
  - WEP/TKIP/AES Encryption
  - Port Filtering
  - RADIUS client
  - 802.1x
  - Rogue AP detection
  - Ad-hoc network detection
  - Port Filtering

### 802.11A RADIO SPECIFICATIONS

- Operating Frequency: 5.180 GHz – 5.825 GHz
- Modulation: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power: 20 dBm / 100 mW
- Association Rates (Mbps): 108, 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

### 802.11B RADIO SPECIFICATIONS

- Operating Frequency: 2.4 GHz – 2.5 GHz
- Modulation: Direct-Sequence Spread-Spectrum (DSSS)
- Transmit Power: 20 dBm / 100 mW
- Association Rates (Mbps): 11, 5.5, 2, 1 with automatic fallback

### 802.11G RADIO SPECIFICATIONS

- Operating Frequency: 2.4 GHz – 2.5 GHz
- Modulation: Orthogonal Frequency Division Multiplexing (OFDM)
- Transmit Power: 20 dBm / 100 mW
- Association Rates (Mbps): 108, 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback

### AVAILABLE CHANNELS 802.11A/B/G

- Based on regulatory domain

### ANTENNA

- AP-80MB: None
- AP-80SB: Integrated 5 GHz 17 dBi 20 degree beam directional panel antenna (suitable for bridging applications)

### 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:
  - 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

- AP-80MB
  - 2 x N-type female antenna interfaces (1 x 2.4 GHz, 1 x 5 GHz)
- AP-80SB
  - 2 x N-type female antenna interfaces (2 x 2.4 GHz)
  - 1 x integrated 5 GHz 17 dBi 20 degree beam antenna
- Other:
  - 1 x electrical safety / ground terminal point
  - 1 x 5.5 VDC BNC interface (used for RSSI level measurement)

# ARUBA AP-80SB AND AP-80MB ACCESS POINTS

## POWER

- Supplied via power injector
- Input:
  - 100-240 V AC / 1.5 A
- Output:
  - 48 V DC up to 1.2 A 30Watt 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
  - 3.5 lbs/1.59 Kgs
- 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-80MB
  - AP-80SB
- 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)

\*Extended with support contract



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