



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



WWW.ARUBANETWORKS.COM

1322 Crossman Avenue, Sunnyvale, CA 94089 | Tel. +1 408.227.4500 | Fax. +1 408.227.4550