ARUBA AP AP-85TX ACCESS POINTS

The Aruba AP-85TX is a fully-hardened, outdoor-rated, dual high-power radio (dual-band concurrent 802.11a plus b/g) 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. Designed to operate from Power-over-Ethernet (PoE) or +12VDC solar power, the access point supports diverse deployment options, delivering secure user-centric enterprise network services and applications outdoors on campuses, and storage yards, in indoor and outdoor warehouses, and in extreme industrial production environments. Centrally managed from an Aruba Mobility Controller, the AP-85TX empowers the network administrator with unparalleled control over services, security and deployment models. The AP-85TX is specifically engineered for deployment in the harshest outdoor environments, able to withstand exposure to extreme high or low temperatures, moisture and precipitation, and fully sealed for protection from airborne contaminants. The AP-85TX provides unparalleled flexibility in an outdoor AP, supporting standard 802.3af PoE power and DC for sourcing power from solar or plant bus power sources. The AP supports quad antenna interfaces (with diversity) for connecting external antennas and can be wall, pole or mast mounted.

APPLICATION
• Advanced high-performance outdoor campus, warehouse, and container / transportation facilities, industrial plants, and other harsh indoor and outdoor environments. Supports advanced delivery of high-performance mesh and bridging services.

OPERATING MODE
• Multi-service 802.11a/b/g WLAN, 802.11a/b/g air monitor, hybrid combination of WLAN/AM and Remote AP or secure mesh point/ mesh portal.

RADIOS
• Dual high-power radios - software configurable to 802.11a and 802.11b/g

RF MANAGEMENT
• Automatic transmit power and channel management control with auto coverage hole correction via ARM

MOBILITY SERVICE DELIVERY
• Virtual AP Services:
  - Supports up to 16 or 32 SSIDs per access point
  - Multiple captive portals per SSID
  - Supports any combination of encryption / authentication type 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
Location-based Services

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

* Mobility Controller managed, dependent upon configured regulatory domain

AVAILABLE CHANNELS 802.11A/B/G
- Centrally managed by Mobility Controller, based on configured regulatory domain

ANTENNA
- Quad, N-type female interfaces (2 x 2.4 GHz, 2 x 5 GHz) for external antenna support (Supports signal diversity)

INTERFACES
- Network:
    - 1 x 10/100Base-T Ethernet (RJ45) , aAuto-sensing link speed and MDI/MDX
    - 48 V DC IEEE compliant 802.3af Power- over- Ethernet (PoE)
    - Serial-over-Ethernet
- Power:
    - 1 x 12 V DC (for external DC solar supplied power)
- Antenna:
    - 4 x N-Type female antenna interfaces (2 per radio)
- Other:
    - 1 x electrical safety / ground terminal point
    - Onboard LED array for RSSI level reading

POWER
- 48 V DC 802.3af Power over Ethernet (PoE) (Maximum power draw 12 W at 48 V DC)
- 12 V DC for external solar supplied power (Maximum power draw 9.6 W at 12 V DC)

MOUNTING
- Standard:
    - Articulating adjustable pole or mast mount kit
- Optional mounting kit:
    - Antenna mount bracket allows direct mount of external antennas to the access point enclosure

MECHANICAL
- Dimensions/Weight:
    - 10.80" x 12.64" x 3.07"
    - 261 mm x 321 mm x 78 mm
    - 4.1 lbs/1.86 Kgs
- Dimensions/Weight (Shipping):
    - 19.7" x 11.8" x 6.7"
    - 500 mm x 300 mm x 170 mm
    - 13.9 lbs/6.0 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
- 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

(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-85TX

- Accessories:
    - AP-85-MNT-1 (antenna mount kit)
    - AP-CBL-1 (10' N-type Female to N-type male LMR 400 antenna extension cable)
    - AP-LAR-1 (antenna interface lightening arrester, one required per port)
    - AP-ANT-80 to 91 (detachable antennas)

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