



## 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, the access point supports diverse deployment options, delivering secure enterprise mobility services and applications outdoors on campuses, in 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.

### WIRELESS RADIO SPECIFICATIONS

- AP type: High-power 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

### RF MANAGEMENT

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

### ANTENNA

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

### 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

### 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

# ARUBA AP-85TX ACCESS POINT

## MECHANICAL

- Dimensions/Weight:
  - 12.6" x 9.1" x 2.8"
  - 320mm x 230mm x 70mm
  - 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)
- Storage and Transportation Temperature Range:
  - Temp: -40° to +70° C (-40° to +158° 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
- ATEX Zone 2
- IEC 60529 IP67

(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

- 1 year parts/labor

## RF PERFORMANCE TABLE

	Max TX power (dBm)	RX Sensitivity (dBm)
<b>802.11b 2.4GHz</b>		
1Mbps	+23.5	-90.0
2Mbps	+23.0	-87.0
5.5Mbps	+22.5	-85.0
11Mbps	+22.0	-82.0
<b>802.11g 2.4GHz</b>		
6Mbps	+23.0	-86.0
9Mbps	+23.0	-85.0
12Mbps	+23.0	-84.0
18Mbps	+23.0	-82.0
24Mbps	+23.0	-78.0
36Mbps	+22.5	-75.0
48Mbps	+22.0	-71.0
54Mbps	+21.5	-68.0
<b>802.11a 5GHz</b>		
6Mbps	+20.0	-86.0
9Mbps	+20.0	-85.0
12Mbps	+20.0	-84.0
18Mbps	+20.0	-82.0
24Mbps	+20.0	-78.0
36Mbps	+18.0	-75.0
48Mbps	+17.0	-71.0
54Mbps	+16.5	-68.0

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

## ORDERING INFORMATION

Part number	Description
AP-85TX	Aruba 85 Outdoor Wireless AP (Ethernet)
AP-85-CBL-1	Aruba 85 AC Power Provisioning Cable (1m)
AP-85-CBL-2-EU-S	Aruba 85 AC Power Cable (3m), EU version
AP-85-CBL-2-US-S	Aruba 85 AC Power Cable (3m), US version
AP-85-CBL-3-EU-S	Aruba 85 AC Power Cable (15m), EU version
AP-85-CBL-4-S	Aruba 85 DC Power Cable (3m)
AP-85-MNT-1	Aruba 85 Antenna Mount Bracket
AP-85-MNT-S	Aruba 85 Mounting Kit Spare
AP-85-MNT-2	AP-85 Low Profile Wall Mount Bracket
AP-CBL-1	Aruba Outdoor Antenna Cable Extension - N-Type Connector - 10'
AP-LAR-1	Aruba Outdoor Antenna Lightning Arrestor - N-Type Connector



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