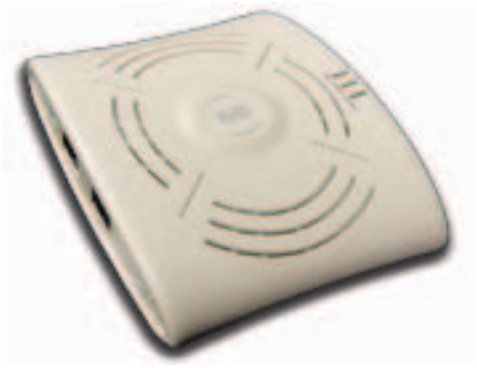
DATA SHEET
**Aruba AP-68 & AP-68P Access Points**

# ARUBA AP-68 & AP-68P ACCESS POINTS



The multifunction AP-68 and AP-68P* are low-cost 802.11n access points (APs) designed for small, very low-density deployment areas in offices, hospitals, schools and retail stores. These compact non-MIMO APs deliver wire-like performance at data rates up to 150 Mbps.

The AP-68 features one 2.4-GHz radio with nominal 100-milliwatt transmit power and two internal antennas while the AP-68P features one 2.4-GHz radio with higher 500-milliwatt transmit power and an external antenna connector.

Working with Aruba's centralized Mobility Controllers, the AP-68 and AP-68P deliver secure network services that move users to a "wireless where possible, wired where necessary" network access model. The network can then be *rightsized* by eliminating unnecessary ports and thereby reducing operating costs.

802.11n enables the use of wireless as a primary connection with speed and reliability comparable to a wired LAN. It also increases performance by utilizing techniques such as channel bonding and block acknowledgement. Advanced antenna technology also increases range and reliability.

The key to ensuring wire-like performance and reliability is Aruba's unique Adaptive Radio Management, which maximizes client performance and ensures that APs stay clear of interference.

The multifunction AP-68 and AP-68P can be configured through the Mobility Controller to provide WLAN access with part-time air monitoring, dedicated air monitoring for wireless IPS, Remote AP (RAP) functionality or secure enterprise mesh. The AP-68 and AP-68P* each feature a 10/100BASE-T Ethernet interface and can operate from standard 802.3af power-over-Ethernet (PoE) sources or a 12-volt DC power supply.

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### APPLICATION
- Entry-level indoor 802.11n single-radio, single-band (2.4 GHz) AP for small, very low-density deployment areas in offices, hospitals, schools and retail stores.

### OPERATING MODE
- 802.11b/g/n AP, air monitor (AM) and Remote AP (RAP)
- AM and RAP
- RAP
- Secure enterprise mesh

### RADIOS
- Software-configurable single radio capable of supporting 2.4 GHz
- 802.11n capable, providing up to 150 Mbps data rate

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

### ADVANCED FEATURES
- Integrated RAP, secure enterprise mesh point or portal, wireless intrusion detection and prevention
- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys

### POWER
- 48 V DC 802.3af power over Ethernet
- 12 V DC for external AC supplied power (adapter sold separately)-
- Maximum power consumption: 8 watts

*Available only in China

### WIRELESS RADIO SPECIFICATIONS
- AP type: Single radio, single band 802.11n indoor
- Supported frequency bands (country-specif ic restrictions apply):
  - 2.400 to 2.4835 GHz
- Available channels: Controller-managed, dependent upon configured regulatory domain
- Supported radio technologies:
  - 802.11b: Direct-sequence spread-spectrum (DSSS)
  - 802.11g/n: Orthogonal frequency division multiplexing (OFDM)
  - 802.11n: 1x1 with one spatial streams
- Supported modulation types:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum transmit power:
  - AP-68: 20 dBm (limited by local regulatory requirements)
  - AP-68P: 27 dBm (limited by local regulatory requirements; available only in China)
- Antenna diversity (AP-68 only) for improved receiver performance
- Association rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: MCS0 – MCS7 (6.5 Mbps to 150 Mbps)
- 802.11n high-throughput (HT) support: HT 20/40
- 802.11n packet

### ANTENNA
- AP-68: Integrated, omni-directional antenna elements (supporting receive spatial diversity). Antenna gain: 3 dBi (max)
- AP-68P: RP-SMA interface for external antenna support (available only in China)

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## INTERFACES

- Network:
  - 1 x 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
- Power:
  - 1 x DC power connector
- Other:
  - 1 x RJ-45 serial console interface

## MOUNTING

- Standard:
  - Tool-less ceiling tile rail (15/16")
  - 4 rubber "feet" to support desk mount

## MECHANICAL

- Dimensions / weight (unit):
  - 140 mm x 105 mm x 38 mm (5.5" x 4.1" x 1.5")
  - 145 g (5.1 oz)
- Dimensions / weight (shipping):
  - 165 mm x 130 mm x 60 mm (6.5" x 5.1" x 2.4")
  - 330 g (11.6 oz)

## ENVIRONMENTAL

- Operating:
  - Temp: 0° to 40° C (32° to 104° F)
  - Humidity: 5 to 95% non-condensing
- Storage and transportation temperature range:
  - Temp: -40° to +70° C (-40° to +158° F)

## REGULATORY

- FCC/Industry of Canada
- R&TTE Directive 1995/5/EC
- EN 300 328
- CB Scheme Safety, cTUVus
- Korea KCC
- Mexico NOM/COFETEL
- CE Marked
- Low Voltage Directive 72/23/EEC
- EN 301 489
- UL/IEC/EN 60950
- Japan MIC/VCCI
- Brazil ANATEL
- China SRRC/CCC
- AS/NZS 4260, 4771, 3548

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

## CERTIFICATIONS

- Wi-Fi certified

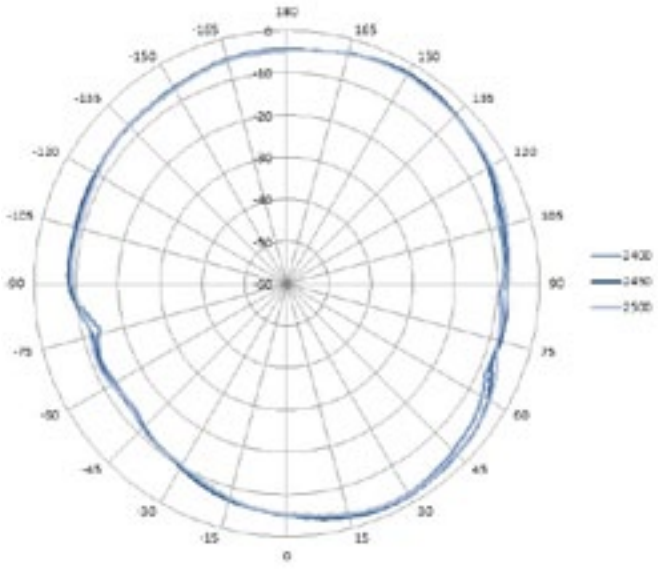
## WARRANTY

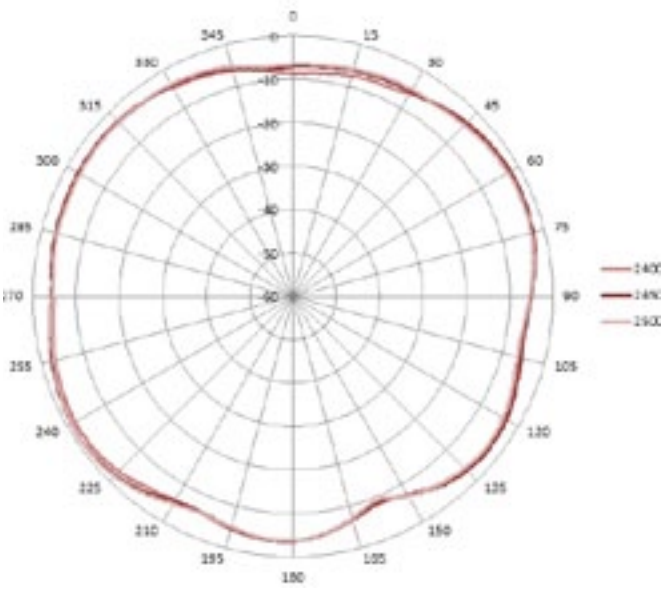
- 1 year parts/labor

## ORDERING INFORMATION

| Part number | Description |
|---|---|
| AP-68 | Aruba 68 AP (802.11b/g/n: integrated antennas) |
| AP-68P | Aruba 68P AP (high power 802.11b/g/n: antenna connector; available only in China) |
| AP-AC-UN | Aruba 12 V DC Universal AC Power Adapter Kit - North America, Japan, United Kingdom, Italy, EC (Europlug), Australia, China, India, Korea |

## ANTENNA PLOTS (APPLIES TO AP-68 ONLY)





## RF PERFORMANCE TABLE

| | Max TX power (dBm) | RX Sensitivity (dBm) | Max TX power (dBm) | RX Sensitivity (dBm) |
|---|---|---|---|---|
| | AP-68 | | AP-68P | |
| **802.11b** | | | | |
| 1 Mbps | 20 | -96 | 27 | -96 |
| 2 Mbps | 20 | -96 | 27 | -96 |
| 5.5 Mbps | 20 | -94 | 27 | -94 |
| 11 Mbps | 20 | -93 | 27 | -93 |
| **802.11a/g** | | | | |
| 6 Mbps | 20 | -96 | 27 | -96 |
| 9 Mbps | 20 | -96 | 27 | -96 |
| 12 Mbps | 20 | -96 | 27 | -96 |
| 18 Mbps | 20 | -95 | 27 | -95 |
| 24 Mbps | 20 | -92 | 27 | -91 |
| 36 Mbps | 19 | -89 | 26 | -88 |
| 48 Mbps | 18 | -85 | 24 | -84 |
| 54 Mbps | 18 | -83 | 23 | -83 |
| **802.11n HT20** | | | | |
| MCS0 | 20 | -96 | 27 | -96 |
| MCS1 | 20 | -95 | 27 | -94 |
| MCS2 | 20 | -93 | 27 | -92 |
| MCS3 | 20 | -90 | 27 | -89 |
| MCS4 | 19 | -87 | 27 | -86 |
| MCS5 | 18 | -82 | 25 | -82 |
| MCS6 | 17 | -81 | 23 | -80 |
| MCS7 | 16 | -80 | 20 | -79 |
| **802.11n HT40** | | | | |
| MCS0 | 20 | -93 | 27 | -92 |
| MCS1 | 20 | -93 | 27 | -92 |
| MCS2 | 20 | -90 | 27 | -89 |
| MCS3 | 20 | -86 | 27 | -86 |
| MCS4 | 19 | -83 | 27 | -83 |
| MCS5 | 18 | -79 | 25 | -80 |
| MCS6 | 17 | -77 | 23 | -77 |
| MCS7 | 16 | -76 | 20 | -76 |

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

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