

ARUBA AP-68 & AP-68P ACCESS POINTS

Designed for Small, Very Low-Density Deployment



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.

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-specific 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

WIRELESS RADIO SPECIFICATIONS (CONTINUED)

- 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)

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

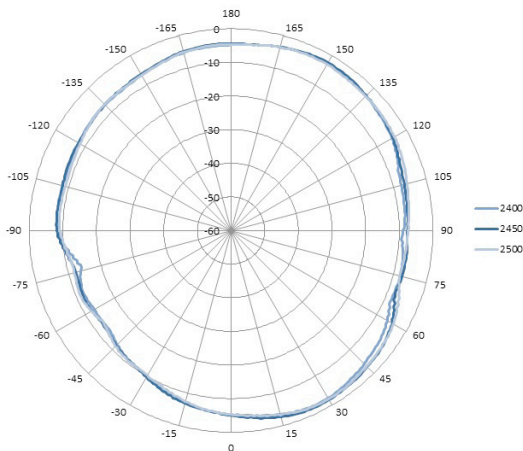
MOUNTING

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

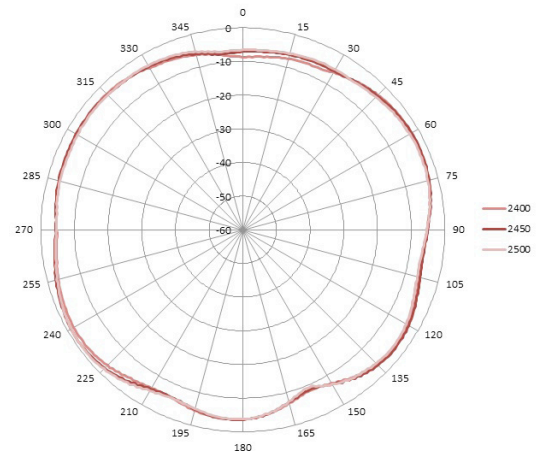
MECHANICAL

- 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)

AP-68 ANTENNA PATTERN PLOTS



Vertical (elevation) plane - AP facing up



Horizontal (azimuth) plane

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)

ANTENNA PLOTS (APPLIES TO AP-68 ONLY) REGULATORY

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

MINIMUM AOS VERSION

- 5.0.3.0

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
AP-AC-12V18	12 V DC/ 18W AC Power Adapter. Does not include country specific power cord.

RF PERFORMANCE TABLE

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.



www.arubanetworks.com

1344 Crossman Avenue, Sunnyvale, CA 94089

1-866-55-ARUBA | Tel. +1 408.227.4500 | Fax. +1 408.227.4550 | info@arubanetworks.com