



ARUBA RAP-5WN REMOTE ACCESS POINT

The RAP-5WN is a powerful platform for the multi-user small branch office or for power users who work from a home office. The RAP-5WN is a high-performance indoor Remote Access Point platform with multiple access and uplink technologies available. The RAP-5WN features wired and wireless connectivity and security, the ability forward traffic based on policy, user centric security, and backup connectivity over cellular networks make this platform ideally suited to the always-on office.

This multi-function Remote Access Point provides wired LAN connectivity on four 10/100 ports that can each be configured with a unique set of policies for secure user access and traffic forwarding. The RAP-5WN features wireless LAN capabilities on multiple SSIDs, air monitoring, and wireless intrusion detection and prevention over the 2.4GHz and 5 GHz RF spectrum (802.11a/b/g/n). The RAP-5WN provides a USB port for connection to a 3G modem for cellular backup of the WAN link.

The Remote Access Point works in conjunction with Aruba controllers to deliver high-speed, secure network services to remote locations. The RAP-5WN operates over any available WAN or LAN transport connection and can be installed by the end user through simple one-click provisioning.



APPLICATION

- High-performance, wired and 802.11n wireless, remote branch office & fixed teleworker applications, high-performance SecureJack ports, indoor use.

WIRED OPERATING MODES

- 10/100 Ethernet
- User authentication - 802.1X, Captive Portal, Mac Authentication, or Open Access
- Policy based forwarding for local resource access

WIRELESS OPERATING MODE

- Multi-service 802.11a/n or 802.11b/g/n WLAN
- 802.11a/b/g/n air monitor
- Hybrid combination of WLAN/AM
- Remote access point
- Configurable to support 802.11n HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n

RADIOS

- Single Radio - software configurable to support 2.4GHz or 5 GHz

RF MANAGEMENT

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

ADVANCED FEATURES

- Integrated Trusted Platform Module (TPM) for secure storage of credentials and keys
- SecureJack capable for secure tunneling of wired Ethernet traffic
- Policy based forwarding for tunneled, locally bridged, and Internet bound traffic

WIRELESS RADIO SPECIFICATIONS

- AP type: 3x3 Multiple-In, Multiple-Out (MIMO)
- 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 configured regulatory domain
- Supported Radio Technologies:
 - 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
 - 802.11a/g/n: Orthogonal Frequency Division Multiplexing (OFDM)
 - 802.11n: 3x3 MIMO with 2 spatial streams
- Supported Modulation Types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
- Transmit Power: Configurable in increments of 0.5 dBm
- Maximum Ratio Combining (MRC) for improved receiver performance
- Association Rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: MCS0 - MCS15 (6.5Mbps - 300Mbps)
- 802.11n High-Throughput (HT) Support: HT 20/40
- 802.11n Packet Aggregation: A-MPDU, A-MSDU

ANTENNAS

- 3 x integral, omni-directional multi-band dipoles
- Antenna Max Gain:
 - 2.4-2.5 GHz / 2.9 dBi
 - 5.150-5.875 GHz / 4.9 dBi

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POWER

- Adapter (included):
 - AC Input: 100-240V/0.5A
 - DC Output: 12V/1.25A
- Maximum power consumption: 12 Watts

INTERFACES

- Network:
 - 1 x 10/100/1000Base-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX
 - 4 x 10/100Base-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX
- Power:
 - 1 x DC power connector
- USB:
 - 1 x USB 2.0 (type A connector)

MOUNTING

- Standard:
 - Desk-top (stand)

MECHANICAL

- Dimensions / Weight:
 - 6.9" x 9.5" x 1.4" (175 mm x 240 mm x 35 mm)
 - 1.0 pounds (450 grams)
- Dimensions / Weight (Shipping):
 - 11" x 11.8" x 3.6" (280 mm x 300 mm x 90 mm)
 - 3.53 pounds (1600 grams)

ENVIRONMENTAL

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

REGULATORY

- FCC 15.247/15.407
- EU R&TTE Directive 1999/5/EC (EN 300 328, EN 301 893, EN 301 489)
- EU LV Directive 2006/95/EC
- IEC/EN 60950
- CE Marking
- cULus Marked
- CB Scheme Certified

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

WARRANTY

- Limited Lifetime Warranty



ORDERING INFORMATION

Part number	Description
RAP-5WN-US	Aruba RAP-5WN RAP (802.11a/n or b/g/n) with US power adapter
RAP-5WN	Aruba RAP-5WN RAP (802.11a/n or b/g/n) with universal power adapter
AP-AC-UN	Aruba 12VDC Universal AC Power Adapter Kit - North America, Japan, United Kingdom, Italy, EC (Schuko), Australia, China, India, Korea

RF PERFORMANCE TABLE

	Max TX power per active TX chain (dBm)	RX Sensitivity (dBm)
802.11b 2.4GHz		
1Mbps	+18.0	-96.0
2Mbps	+18.0	-95.0
5.5Mbps	+18.0	-93.0
11Mbps	+18.0	-92.0
802.11g 2.4GHz		
6Mbps	+17.0	-96.0
9Mbps	+17.0	-96.0
12Mbps	+17.0	-96.0
18Mbps	+17.0	-95.0
24Mbps	+17.0	-92.0
36Mbps	+17.0	-89.0
48Mbps	+16.0	-85.0
54Mbps	+15.0	-83.0
802.11a 5GHz		
6Mbps	+17.0	-96.5
9Mbps	+17.0	-96.5
12Mbps	+17.0	-96.5
18Mbps	+17.0	-95.5
24Mbps	+17.0	-92.0
36Mbps	+16.0	-89.0
48Mbps	+15.0	-85.0
54Mbps	+15.0	-83.5
802.11n 2.4GHz		
MCS0 HT20	+19.0	-96.0
MCS1 HT20	+19.0	-95.0
MCS2 HT20	+19.0	-93.0
MCS3 HT20	+19.0	-89.0
MCS4 HT20	+19.0	-86.0
MCS5 HT20	+17.0	-82.0
MCS6 HT20	+13.0	-80.0
MCS7 HT20	+11.0	-78.0
MCS8 HT40	+18.0	-92.0
MCS9 HT40	+18.0	-89.0
MCS10 HT40	+18.0	-87.0
MCS11 HT40	+18.0	-84.0
MCS12 HT40	+18.0	-81.0
MCS13 HT40	+17.0	-76.0
MCS14 HT40	+13.0	-75.0
MCS15 HT40	+11.0	-73.0
802.11n 5GHz		
MCS0 HT20	+17.0	-96.5
MCS1 HT20	+17.0	-94.5
MCS2 HT20	+17.0	-92.5
MCS3 HT20	+16.0	-89.5
MCS4 HT20	+16.0	-86.0
MCS5 HT20	+16.0	-82.0
MCS6 HT20	+12.0	-80.5
MCS7 HT20	+11.0	-79.0
MCS8 HT40	+17.0	-92.5
MCS9 HT40	+17.0	-89.5
MCS10 HT40	+17.0	-87.0
MCS11 HT40	+16.0	-84.0
MCS12 HT40	+16.0	-81.0
MCS13 HT40	+16.0	-77.0
MCS14 HT40	+12.0	-75.0
MCS15 HT40	+11.0	-73.0

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



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