Aruba 9004 Gateway
Copyright

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Open Source Code

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Hewlett Packard Enterprise Company
Attn: General Counsel
6280 America Center Drive
San Jose, CA 94089
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This document describes the hardware features of the Aruba 9004 gateway. It provides a detailed overview of the physical and performance characteristics of the gateway and explains how to install the gateway and its accessories.

**Guide Overview**

- Chapter 1, “9004 Gateway” on page 7 provides a detailed hardware overview of the Aruba 9004 gateway and each of its components.
- Chapter 2, “Installation” on page 13 describes how to install the Aruba 9004 gateway.
- Chapter 3, “Specifications, Safety, and Compliance” on page 17 lists the Aruba 9004 gateway's technical specifications and safety and regulatory compliance information.

**Related Documentation**

The latest ArubaOS User Guide and ArubaOS CLI Reference Guide are required for the complete management of an Aruba gateway. The latest documentation and the translation of this document into other languages can be found at www.arubanetworks.com/documentation.

**Contacting Support**

**Table 1  Contact Information**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Site</strong></td>
<td><a href="http://www.arubanetworks.com">www.arubanetworks.com</a></td>
</tr>
<tr>
<td><strong>Support Site</strong></td>
<td><a href="http://support.arubanetworks.com">http://support.arubanetworks.com</a></td>
</tr>
<tr>
<td><strong>Airheads Social Forums and Knowledge Base</strong></td>
<td><a href="http://www.community.arubanetworks.com">www.community.arubanetworks.com</a></td>
</tr>
<tr>
<td><strong>North American Telephone</strong></td>
<td>1-800-943-4526 (Toll Free)</td>
</tr>
<tr>
<td></td>
<td>1-408-754-1200</td>
</tr>
<tr>
<td><strong>International Telephones</strong></td>
<td><a href="https://www.arubanetworks.com/support-services/contact-support/">https://www.arubanetworks.com/support-services/contact-support/</a></td>
</tr>
<tr>
<td><strong>Software Licensing Site</strong></td>
<td><a href="http://www.hpe.com/networking/support">www.hpe.com/networking/support</a></td>
</tr>
<tr>
<td><strong>End of Support information</strong></td>
<td><a href="http://www.arubanetworks.com/support-services/end-of-life/end-of-life-policy/">www.arubanetworks.com/support-services/end-of-life/end-of-life-policy/</a></td>
</tr>
<tr>
<td><strong>Security Incident Response Team (SIRT)</strong></td>
<td>Site: <a href="https://www.arubanetworks.com/support-services/security-bulletins/">https://www.arubanetworks.com/support-services/security-bulletins/</a></td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:aruba-sirt@hpe.com">aruba-sirt@hpe.com</a></td>
</tr>
</tbody>
</table>
The Aruba 9004 gateway is a wireless LAN gateway that connects, controls, and intelligently integrates wireless Access Points (APs), Managed Devices, and Air Monitors (AMs).

The Aruba 9004 gateway has the following port configuration:

**Table 2  Aruba 9004 Gateway Port Configuration**

<table>
<thead>
<tr>
<th>Model</th>
<th>Ports</th>
<th>Number of APs Supported</th>
<th>Number of Users Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004</td>
<td>4 x 100/1000BASE-T ports, 1 x USB 3.0 port, RJ45 console port, Micro USB console port</td>
<td>32</td>
<td>2048</td>
</tr>
</tbody>
</table>

The Aruba 9004 gateway requires ArubaOS 8.5.0.0 or later versions.

**Package Checklist**

Inform your supplier if there are any incorrect, missing, or damaged parts. To return this product, repack this unit and other materials included into the original packaging, before returning it to the supplier.

**Table 3  Package Contents**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aruba 9004 gateway</td>
<td>1</td>
</tr>
<tr>
<td>Micro USB console cable</td>
<td>1</td>
</tr>
<tr>
<td>Power adapter</td>
<td>1</td>
</tr>
<tr>
<td>Aruba 9004 Start-up Guide (Printed)</td>
<td>1</td>
</tr>
<tr>
<td>Adapter cable saddle</td>
<td>1</td>
</tr>
</tbody>
</table>

Optional accessories are available for use with the Aruba 9004 gateway and are sold separately. Contact your Aruba sales representative for details and assistance.

**Aruba 9004 Gateway Components**

This section introduces the different component and its location in the Aruba 9004 gateway.
Figure 1 shows the front panel of the Aruba 9004 gateway and Figure 2 shows the back panel of the Aruba 9004 gateway.

**Figure 1  Front Panel of the Aruba 9004 gateway**

![Front Panel of the Aruba 9004 gateway](image1)

* The antenna is integrated within the hardware and is not displayed on the front panel.

**Figure 2  Back Panel of the Aruba 9004 gateway**

![Back Panel of the Aruba 9004 gateway](image2)

**Front Panel LEDs**

The front panel LEDs show the System, WAN, and LAN status including various other features. These front panel LEDs provide basic monitoring information of the overall status of the Aruba 9004 gateway. The following table describes the LED indicators and their corresponding status:

**Table 4  LED Status**

<table>
<thead>
<tr>
<th>LED</th>
<th>Function</th>
<th>Indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>System status</td>
<td>Green (Solid)</td>
<td>Powered and Operational</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green (Blinking)</td>
<td>Loading Software</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amber (Solid)</td>
<td>Critical Alarm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amber (Blinking)</td>
<td>Major Alarm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>Power Off</td>
</tr>
<tr>
<td>WAN</td>
<td>WAN Connectivity Status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAN</td>
<td>Link Status</td>
<td>Green (Solid)</td>
<td>All LAN Ports Established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amber (Solid)</td>
<td>No LAN Ports Established</td>
</tr>
</tbody>
</table>
The AC-DC adapter kit with the following specification is used to power the Aruba 9004 gateway:

- 12V/2.5A power interface
- Center-positive 2.1/5.5 mm circular plug, 9.5 mm length

**Reset Switch**

The Aruba 9004 gateway includes a recessed button for resetting the gateway configurations. Insert a pin into the Reset Switch hole until you feel the pin touches a surface. Push and hold the pin for two seconds to reset the gateway configuration.

**Ethernet Ports**

The Aruba 9004 gateway is equipped with four 100/1000BASE-T Gigabit Ethernet ports (0 to 3). Gigabit Ethernet uses all eight wires and each pair is bidirectional, which means, the same pair is used for both data transmission and reception. Figure 3 illustrates the Gigabit Ethernet port pin-
out for an RJ-45 connector. The pins paired on a 100/1000Base-T Gigabit Ethernet port are: 1/2, 3/6, 4/5, and 7/8.

**Figure 3** Gigabit Ethernet Port Pin-Out

![Gigabit Ethernet Port Pin-Out](image)

**Ethernet Port LEDs**

Each 100/1000BASE-T Ethernet port is equipped with two LEDs that allow basic monitoring of link/port status and activity.

- **LINK/ACT**: Placed on the left side of the port, and displays the link status and activity of the port.
- **STATUS**: Placed on the right side of the port, and displays the status of the port based on the CLI.

The following table describes the LED behavior for each mode:

<table>
<thead>
<tr>
<th>LED</th>
<th>Function</th>
<th>Mode</th>
<th>Indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINK/ACT</td>
<td>Link status</td>
<td>NA</td>
<td>Green (Solid)</td>
<td>Link established</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Green (Blinking)</td>
<td>Port is transmitting or receiving data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Off</td>
<td>No link</td>
</tr>
<tr>
<td>STATUS</td>
<td>Port status</td>
<td>Speed</td>
<td>Green (Solid)</td>
<td>Link at 1000 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Off</td>
<td>Link at 100 Mbps</td>
</tr>
</tbody>
</table>

**Micro-USB Console Port**

The Aruba 9004 gateway is equipped with a Micro-USB (type B) connector that provides console access for direct local access. If both Micro-USB and RJ-45 console ports are connected, the Micro-USB connection takes precedence over the RJ-45 console connection.

**Micro-USB Driver**

To use the Micro-USB console port, you must install the Aruba Micro-USB driver on the computer that will manage your gateway. To download the driver, perform the following steps:

1. Go to [https://support.arubanetworks.com](https://support.arubanetworks.com).
2. Click on the **Tools & Resources** tab.
3. Open the **USB Console Driver** folder.
4. Open the **Mobility Gateway and Mobility Access Switch** folder.
Select the appropriate file for your application. The corresponding operating system is in the file name.

**Console Port**

The serial console port allows connecting a gateway to a serial terminal or a laptop for direct local management. This port is a RJ-45 female connector with the pin-outs described in Figure 4 on page 11. Connect it directly to a terminal or terminal server using an Ethernet cable.

**Figure 4 Serial Console Port Pin-Out**

![Serial Console Port Pin-Out](image)

The communication settings for the Console port is shown in the following table:

**Table 6 Console Terminal Settings**

<table>
<thead>
<tr>
<th>Baud Rate</th>
<th>Data Bits</th>
<th>Parity</th>
<th>Stop Bits</th>
<th>Flow Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>9600</td>
<td>8</td>
<td>None</td>
<td>1</td>
<td>None</td>
</tr>
</tbody>
</table>

The CONSOLE port is compatible only with RS-232 devices. Non-RS-232 devices, such as APs, are not supported.

**CAUTION**

Do not connect the Console port to an Ethernet switch or a PoE power source. This may damage the gateway.

**Serial Console Port Adapter**

A modular adapter can be used to convert the female RJ-45 connector to a male DB9 connector. See Figure 5 for complete details.

**Figure 5 RJ-45 (Female) to DB9 (Male) Modular Adapter Conversion**

![RJ-45 to DB9 Modular Adapter Conversion](image)

**USB Port**

The Aruba 9004 gateway is equipped with a USB 3.0 interface. A USB storage device can be used to save and upload configurations to the gateway.
Kensington Lock Slot
The Aruba 9004 gateway is equipped with a Kensington security slot for additional security.
Installation Recommendations

- For proper air circulation, leave at least 10 cm (4 inches) clearance on the left, right, front, and rear side of the gateway.
- Leave additional space in front and rear side of the gateway to access power cords, network cables, and indicator LEDs.
- Avoid placing anything on top of the gateway because it can lead to overheating of the gateway.
- Avoid placing this gateway on any other device because the heat dissipated from the other device can overheat the gateway.

Installation Using the Integrated Wall-Mounting Slots

The keyhole-shaped slots on the bottom of the gateway can be used to attach the device upright (back port facing downwards) to an indoor wall or shelf.

Make sure to mount the gateway in such a way that there is a clear path to the Ethernet port, such as a predrilled hole in the mounting surface.

1. At the mounting location, install two screws on the wall or shelf, 145.35 mm apart. If you are attaching the device to drywall, it is recommended that you use appropriate wall anchors (not included). See Figure 6.
   - Use 3/4 inch long #6 pan head wood screws for mounting 9004 unit on wood.
   - Use 3/4 inch long #6 pan head wood screws with plastic screw anchor #6-8 x 1 inch on dry wall or concrete wall.
   - Required quantity: 2 screws per unit

*Figure 6  Mounting Using the Integrated Wall-Mounting Slots*
2. Align the mounting slots on the bottom of the gateway over the screws and slide the unit into place. See Figure 7

**Figure 7  Wall Mounting Aruba 9004 Gateway**

3. Align the cable saddle with the slot on the side of the gateway and push the cable saddle into the unit to secure it. See Figure 8.

**Figure 8  Attaching a cable saddle**

4. Insert the cable into the cable saddle and attach it to the power connector slot. This secures the cable and keeps it in place. See Figure 9.
Figure 9  Securing a cable
Aruba 9004 Gateway Specifications

Physical
- Device Dimensions (without mounting brackets) (HxWxD): 3.82 cm x 19.85 cm x 15.31 cm
- Device Weight: 2.519 lbs (1.143 kg)

Electrical
- Ethernet
  - 4 x 100/1000BASE-T auto-sensing Ethernet RJ-45 Interfaces
  - MDI/MDX
- Power
  - 12V DC power interface, supports powering through an 12V DC, 2.5A AC-to-DC power adapter.

Environmental
- Operating
  - Temperature Range: 0 °C to 40 °C (32 °F to 104 °F)
  - Humidity Range: 10% to 90% (RH), non-condensing
- Storage and Transportation
  - Temperature Range: −40 °C to 70 °C (−40 °F to 158 °F)
  - Humidity Range: 10% to 95% (RH), non-condensing

For additional specifications on this product, please refer to the data sheet. The data sheet can be found at www.arubanetworks.com

Safety and Regulatory Compliance

Aruba, a Hewlett Packard Enterprise company provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Aruba products. This document can be viewed or downloaded from the following location: www.arubanetworks.com/safety_addendum

Aruba gateways must be installed by a professional installer. The professional installer is responsible for ensuring that grounding is available and it meets applicable local and national electrical codes.

RF Radiation Exposure Statement: This equipment complies with RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.874 inches (20cm) between the radiator and your body for 2.4 GHz operations. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by Aruba, a Hewlett Packard Enterprise company could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

If this equipment does cause interference, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

**Industry Canada**

This Class B digital apparatus meets all of the requirements of the Canadian Interference-Causing Equipment Regulations.

This device complies with Industry Canada’s license-exempt RSS regulations. Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

**Déclaration d'Industrie Canada**

Conformément aux réglementations d'Industrie Canada, cet émetteur-récepteur radio doit être utilisé uniquement avec une antenne dont le type et le gain maximal doivent être approuvés par Industrie Canada.

Ce périphérique est conforme aux règlements RSS exempts de licence d'Industrie Canada. L'utilisation de ce périphérique est soumise aux deux conditions suivantes : (1) ce périphérique ne doit pas provoquer d'interférences, et (2) ce périphérique doit accepter toute interférence, y compris les interférences susceptibles de provoquer undysfonctionnement.
EU Regulatory Conformance

The Declaration of Conformity made under RED Directive 2014/53/EU is available for viewing at http://www.hpe.com/eu/certificates. Select the document that corresponds to your device’s model number as it is indicated on the product label.

Use of controls or adjustments of performance or procedures other than those specified in this manual may result in hazardous radiation exposure.

Although this gateway has been tested up to 1 kV per CE immunity requirements, it requires surge protection to be provided as part of the building installation to protect against unidirectional surges resulting from electrical switching and lightning strikes. For protection against these surges in an outdoor installation, any exposed wiring must be shielded, and the shield for the wiring must be grounded at both ends.

Wireless Channel Restrictions

Table 7 Frequency Range Table

<table>
<thead>
<tr>
<th>Frequency Range MHz</th>
<th>Max EIRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2402-2480</td>
<td>-8 dbm</td>
</tr>
</tbody>
</table>

Battery Statements

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie de même type ou d'un équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

The battery supplied with this product may contain perchlorate material. Special handling may apply in California and certain other states. See www.dtsc.ca.gov/hazardouswaste/perchlorate for more information.

There is a risk of explosion if battery is replaced by an incorrect type, so dispose used batteries according to the instructions.

Japan VCCI

This product is a Class B product based on the standard of the VCCI Council. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

Thailand

There is a danger of explosion if the battery is replaced with the incorrect type. Replace only with a battery of the same type or an equivalent recommended by the manufacturer. Dispose of used batteries in accordance with the manufacturer’s instructions.

The battery supplied with this product may contain perchlorate material. Special handling may apply in California and certain other states. See www.dtsc.ca.gov/hazardouswaste/perchlorate for more information.

There is a risk of explosion if the battery is replaced by an incorrect type, so dispose of used batteries according to the instructions.
Regulatory Model Name
The regulatory model name for the Aruba 9004 Gateway is ARCN9004.

Proper Disposal of Aruba Equipment

Waste of Electrical and Electronic Equipment
Aruba, a Hewlett Packard Enterprise company products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2012/19/EU on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS
Aruba, a Hewlett Packard Enterprise company products also comply with the EU Restriction of Hazardous Substances Directive 2011/65/EU (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Bromine. Some Aruba products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the “RoHS” label shown at the left indicating conformance to this Directive.

India RoHS
This product complies with RoHS requirements as prescribed by E-Waste (Management & Handling) Rules, governed by the Ministry of Environment & Forests, Government of India.

China RoHS
Aruba, a Hewlett Packard Enterprise company products also comply with China environmental declaration requirements and are labeled with the “EFUP 10” label shown at the left.
所有技術文件皆必須秀出廠牌/型號，而使用手冊必須再補上警語，其警語?容如下：

第十二條※
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條※
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波?射性電機設備之干擾。

支援5G功能則必須補上“應避免影響附近雷達系統之操作”
不具備外接或替換天線時須加註：“高增益指向性天線只得應用於固定式點對點系統。

第十二條　經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波?射性電機設備之干擾。

1. 應避免影響附近雷達系統之操作。
2. High-gain directional antennas shall only be used in fixed point-to-point systems.
3. Electromagnetic wave exposure level MPE standard value is 1 mW/cm². The measured product value is 0.46 mW/cm².

Нормативные требования Евразийского Экономического Союза

**Russia**

HPE Russia: ООО "Хьюлетт-Packard Энтерпрайз" Российская Федерация, 125171, г. Москва, Ленинградское шоссе, 16A, стр.3, Телефон: +7 499 403 4248 Факс: +7 499 403 4677

'HPE Belarus': ИООО «Хьюлетт-Паккард Бел», Республика Беларусь, 220030, г. Минск, ул. Интернациональная, 36-1, Телефон/факс: +375 17 392 28 20

'HPE Kazakhstan': TOO «Хьюлетт-Паккард (К)», Республика Казахстан, 050040, г. Алматы, Бостандыкский район, проспект Аль-Фараби, 77/7, Телефон/факс: +7 727 355 35 50

**Kazakhstan**

ЖШС "Хьюлетт Паккард Энтерпрайз" Ресей Федерациясы, 125171, Мәскеу, Ленинград тас жолы, 16А блок 3, Телефон: +7 499 403 4248 Факс: +7 499 403 4677

«HEWLETT-PACKARD Bel» ЖШС, Беларусь Республикасы, 220030, Минск қ., Интернациональная көшесі, 36/1, Телефон/факс: +375 17 392 28 20

ЖШС «Хьюлетт-Паккард (К)», Қазақстан Республикасы, 050040, Алматы қ., Бостандық ауданы, Әл-Фараби даңғылы, 77/7, Телефон/факс: +7 (727) 355 35 50

**Mexico**

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.