**RETIRED:** This document has been officially retired, and the base products listed herein are now considered obsolete and are no longer available for sale. Consequently, the information contained within may no longer be current. This document is provided exclusively for reference and informational purposes.



## Overview

# Aruba 7000 Series Mobility Controllers

### Improved Network Performance, Visibility, and Control

Aruba 7000 Series Mobility Controllers enhance WLAN performance by centralizing all control functionality for individual Aruba access points (APs) to improve AP utilization, security, and client roaming. Ideally suited for midsize campuses and branches, the 7000 Series can be deployed using Zero Touch Provisioning (ZTP) to simplify deployment.




**Aruba 7000 Series Mobility Controllers**

## Key Features

- 7005 Mobility Controller is a compact, fanless entry-level branch platform that can be powered by a Power-over-Ethernet (PoE) switch.
- 7008 Mobility Controller is a compact, fanless entry-level branch platform with 8 integrated PoE and PoE+ switch ports for small branch locations with some PoE requirements
- 7010 Mobility Controller is designed for mid-sized branch deployments that require several PoE and PoE+ switch ports.
- 7024 Mobility Controller is designed for mid-sized branch offices that require up to 24 switch ports for unified wired and wireless access.
- 7030 Mobility Controller is ideal for mid- to large- sized branch deployments that require unprecedented scale and performance.

## Standard Features

### Simple and Secure Access

The 7000 Series serves a key role in Dynamic Segmentation, providing Aruba's Policy Enforcement Firewall (PEF) to enforce policies based on user role, device type, application, and network location - and simplifying and securing wired and wireless network access. Traffic is encapsulated in GRE tunnels for complete encryption all the way from an AP or switch. This feature can be enabled with the ArubaOS PEF license and eliminates the need to manually configure SSIDs, VLANs or ACLs for each new client on the network.

### High Performance and Reliability

Each 7000 Series provides connectivity for up to 4,096 concurrent users or client devices, 64 access points and include up to 24 Ethernet ports and multiple WAN uplinks. With 8Gbps of maximum throughput to perform Policy Enforcement Firewall (PEF) features, the 7000 Series delvers plenty of horsepower for the most demanding enterprise environments. These capabilities are over 40 times the client density and 10 times the maximum throughput of typical network appliances.
For enhanced resiliency and availability, the 7000 Series can be clustered together in a network.

### 24/7 Mission-critical Networking

Aruba's unique patented wireless technologies are based on AI-powered machine learning algorithms and integrated directly into ArubaOS. Adaptive Radio Management, AirMatch and ClientMatch (now enhanced with Wi-Fi 6 grouping) provide RF optimization techniques to improve user experience and network health based on changing environmental conditions, correct for noisy or congested RF and resolve sticky client issues during user roaming. RFProtect provides advanced spectrum analysis and wireless intrusion protection (WIPS/WIDS) to help identify and mitigate Wi-Fi and non-Wi-Fi sources of interference, as well as containment of potential security risks. Learn more about Aruba's software features on the ArubaOS datasheet.

When deployed with Aruba Mobility Conductor, the 7000 Series can be joined to a controller cluster to increase scale, improve reliability using High Availability (HA), adopt configurations seamlessly based on hierarchy, support Live Upgrades to reduce maintenance windows, and share licenses from a global licensing pool. The 7000 Series also serves a key policy enforcement role in Aruba's 360 Secure Fabric. Aruba AirWave provides real-time monitoring, reporting and Wi-Fi planning and visibility services.

### Microsoft Features

Aruba's integration with Microsoft enables unique application intelligence that detects Microsoft 365, Teams and Skype for Business traffic and then prioritizes them over less critical applications. Through management interfaces on ArubaOS, Aruba Central, and Aruba AirWave, IT can visualize call quality metrics such as MOS, latency, jitter, and packet loss for additional insights.

### Mobility Controller Deployment

The Aruba 7000 Series can be deployed using Aruba Mobility Controller software licenses in a campus or branch access layer deployment. In this mode, the controllers cannot be simultaneously used for SD-WAN. In Mobility Controller mode, the 7000 Series can also participate in Aruba's Dynamic Segmentation framework, with, at minimum, an access point (AP) license and a Policy Enforcement Firewall (PEF) license for each Aruba access point and switch in the network.

### SD-WAN Deployment

Refer to the SD-WAN use cases guide for more information on how the 7000 Series can be used. Each 7000 Series requires an Aruba Central software subscription license to enable SD-WAN software features and the use of cloud-based management. The SD-WAN license also enables the use of the entire bandwidth capacity stated in the data sheet for each gateway.

- For micro-branch deployments, the 7005, 7008 (and 9004) can be ordered with a base capacity license that supports up to 75 client devices each.
- In high availability deployments, each primary and backup appliances need to have a separate subscription license applied.

Each SD-WAN Base Capacity subscription includes software support and TAC/phone support. For SD-WAN hardware replacement support, order hardware-only support SKUs through your Aruba value-added reseller (VAR).

### Service and Warranty Information

- Hardware: 1 year parts/ labor, can be extended with support contract
- Software: 90 days, can be extended with support contract

## Standard Features

### Enhanced Capabilities

- **Wi-Fi 6 (802.11ax) enhanced with ClientMatch**
  The latest Wi-Fi standard brings enhanced performance, speed, and efficiency with key features such as OFDMA, 1024-QAM, and bidirectional MU-MIMO. Combined with Aruba's patented ClientMatch technology, 802.11ax clients will now be grouped together to optimize the multi-user experience.
- **Enhanced wireless security**
  Support for WPA3 brings stronger encryption and authentication methods, while Enhanced Open brings automatic security to open networks. New WPA2-MPSK feature enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device need to be changed, no additional key changes are needed for other devices on the network.
- **Dynamic Segmentation**
  To simplify and better secure wired and wireless network access, the 7000 Series can enforce per-user and device roles across wired and wireless networks by integrating with ClearPass Policy Manager. This ensures consistent policy regardless of user role and device type, and eliminates the need to configure unnecessary SSIDs, ACLs, VLANs and subnets at every node in the network.
- **Policy Enforcement Firewall**
  Enabled by the PEF license, wired and wireless user and application traffic can be tunneled to a stateful firewall on the 7000 Series through GRE tunnels for inspection. Policies are then enforced based on user role, device type, application and location - as described in Dynamic Segmentation.
- **Application visibility and control**
  As part of the PEF license, application visibility with Deep Packet Inspection (DPI) technology evaluates and optimizes performance and Quality of Service policies for over 3,000 applications - even for encrypted or hidden traffic.
- **Web content filtering**
  WebCC is an add-on subscription-based feature that classifies websites by content category and rates them by reputation. It can also block, apply QoS, bandwidth-limit, mirror, and log web content.
- **Unified Communications and Collaboration (UCC)**
  Visualize and troubleshoot networks based on call quality metrics such as MOS, latency, jitter and packet loss. Supported applications include: Teams, Skype for Business®, Wi-Fi Calling, Facetime, SIP, Jabber, Spark and more.
- **Zero Touch Provisioning**
  The 7000 Series can be factory-shipped and deployed onsite with cloud-based Aruba Activate. For network-specific requirements, settings can be applied based on hierarchical configuration.
- **Integrated VPN services**
  With support for IPSec/SSL VPNs, Aruba remote APs (RAPs) and Aruba VIA VPN users can establish encrypted sessions without any additional hardware required.
- **Third-party security integration**
  For advanced malware or antivirus protection, the 7000 Series can assume the role of an on-premises agent of centrally-hosted firewalls such as those provided by Palo Alto Networks and Check Point Software. Dedicated firewall appliances are no longer needed at each branch.

# Configuration Information

## 7000 Ordering Guide

| Remarks | Description | SKU |
|---|---|---|
| | **Step 1: Select the appropriate 7010 Chassis** | |
| | Aruba 7010 (RW) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clients Controller | JW678A |
| | Aruba 7010 (US) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clients Controller | JW679A |
| | Aruba 7010(IL) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 for AP and 2K Clients Cntrlr | JW680A |
| | Aruba 7010 (JP) 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP for 32 AP and 2K Clients Cntrlr | JW681A |
| | Aruba 7010 (EG) 16x 1000BASE-T + 2x SFP Ports 32 AP Branch Controller | JY850A |
| | Aruba 7010 (RW) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clnts Cntrlr | JW702A |
| | Aruba 7010 (US) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clnts Cntrlr | JW703A |
| | Aruba 7010 (IL) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1G BASE-X SFP 32 AP and 2K Clnts Cntrlr | JW704A |
| | Aruba 7010 (JP) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clnts Cntrlr | JW705A |
| | **Step 2: Select AC power cord** | |
| | PC-AC-ARG AC Power Cord (Argentina) 250V/10A 1.8m C13 to IRAM 2073 | JW113A |
| | PC-AC-AUS AC Power Cord (Australia) 250V/10A 1.8m C13 to AS3112 | JW114A |
| | PC-AC-BR AC Power Cord (Brazil) 250V/10A 1.8m C13 to NBR 14136 | JW115A |
| | PC-AC-CHN AC Power Cord (China) 250V/10A 1.8m C13 to GB2099 | JW116A |
| | PC-AC-DEN AC Power Cord (Denmark) 250V/10A 1.8m C13 to AFSNIT 107-2-D1 | JW117A |
| | PC-AC-EC AC Power Cord (Europe) 250V/10A 1.8m C13 to CEE7/7 | JW118A |
| | PC-AC-IN AC Power Cord (India) 250V/6A 1.8m C13 to IS1293 | JW119A |
| | PC-AC-IL AC Power Cord (Israel) 250V/10A 1.8m C13 to SI32 | JW120A |
| | PC-AC-IT AC Power Cord (Italy) 250V/10A 1.8m C13 to CEI 23-50 | JW121A |
| | PC-AC-JPN AC Power Cord (Japan) 125V/12A 1.8m C13 to JISC 8303 | JW122A |
| | PC-AC-KOR AC Power Cord (Korea) 250V/7A 1.8m C13 to KSC 8305 | JW123A |
| | PC-AC-NA AC Power Cord (North America) 125V/10A 1.8m C13 to NEMA 5-15P | JW124A |
| | PC-AC-SWI AC Power Cord (Switzerland) 220V/10A 1.8m C13 to SEV 1011 | JW125A |
| | PC-AC-UK AC Power Cord (United Kingdom) 250V/10A 1.8m C13 to BS1363 | JW127A |
| | PC-AC-ZA AC Power Cord (South Africa) 250V/10A 1.8m C13 to SANS 164-1 | JW128A |
| | **Step 3: Select Transceivers for SFP Ports** | |
| | **Notes:** There are 2 SFP 10/100/1000 ports on 7010 | |
| | **Step 4: Spare Mount Kit** | |
| | Aruba 7010-MNT-19 7010 Series Replacement 19-inch Rack Mounting Kit | JW085A |

## Configuration Information

| Remarks | Description | SKU |
|---|---|---|
| | **Step 5: Select Software (Optional)** | |
| | **Central** | |
| 1 | Aruba SUB1-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 1-year Subscription E-STU | JW455AAE |
| 1 | Aruba SUB3-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 3-year Subscription E-STU | JW456AAE |
| 1 | Aruba SUB5-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 5-year Subscription E-STU | JW457AAE |
| **Notes:** | Cloud web policy enforcement for 1 AP (NOT required for Access Points with Central Subscription) | |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 1 yr Subscription E-STU | R6U58AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 3 yr Subscription E-STU | R6U59AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 5 yr Subscription E-STU | R6U60AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 7 yr Subscription E-STU | R6U61AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 10 yr Subscription E-STU | R6U62AAE |
| **Rule #:** | **Configuration Rules** | |
| 1 | For use with iQuote. Do not model in OCx as it is already visible in the Aruba Catalog under Network Management. | |
| 3 | Add the Central On-Prem Skus to the Aruba Catalog as Standalone:<br>Aruba > Network Management > Central > On-Prem Services | |

## 7024 Ordering Guide

| Remarks | Description | SKU |
|---|---|---|
| | **Step 1: Select the appropriate 7024 Chassis** | |
| | Aruba 7024 (RW) 24-port 400W PoE+ 10G BASE-X SFP+ 32 AP and 2K Clients Controller | JW682A |
| | Aruba 7024 (US) 24-port 400W PoE+ 10G BASE-X SFP+ 32 AP and 2K Clients Controller | JW683A |
| | **Step 2: Select AC power cord** | |
| | PC-AC-ARG AC Power Cord (Argentina) 250V/10A 1.8m C13 to IRAM 2073 | JW113A |
| | PC-AC-AUS AC Power Cord (Australia) 250V/10A 1.8m C13 to AS3112 | JW114A |
| | PC-AC-BR AC Power Cord (Brazil) 250V/10A 1.8m C13 to NBR 14136 | JW115A |
| | PC-AC-CHN AC Power Cord (China) 250V/10A 1.8m C13 to GB2099 | JW116A |
| | PC-AC-DEN AC Power Cord (Denmark) 250V/10A 1.8m C13 to AFSNIT 107-2-D1 | JW117A |
| | PC-AC-EC AC Power Cord (Europe) 250V/10A 1.8m C13 to CEE7/7 | JW118A |
| | PC-AC-IN AC Power Cord (India) 250V/6A 1.8m C13 to IS1293 | JW119A |
| | PC-AC-IL AC Power Cord (Israel) 250V/10A 1.8m C13 to SI32 | JW120A |
| | PC-AC-IT AC Power Cord (Italy) 250V/10A 1.8m C13 to CEI 23-50 | JW121A |
| | PC-AC-JPN AC Power Cord (Japan) 125V/12A 1.8m C13 to JISC 8303 | JW122A |
| | PC-AC-KOR AC Power Cord (Korea) 250V/7A 1.8m C13 to KSC 8305 | JW123A |
| | PC-AC-NA AC Power Cord (North America) 125V/10A 1.8m C13 to NEMA 5-15P | JW124A |
| | PC-AC-SWI AC Power Cord (Switzerland) 220V/10A 1.8m C13 to SEV 1011 | JW125A |
| | PC-AC-UK AC Power Cord (United Kingdom) 250V/10A 1.8m C13 to BS1363 | JW127A |
| | PC-AC-ZA AC Power Cord (South Africa) 250V/10A 1.8m C13 to SANS 164-1 | JW128A |
| | **Step 3: Select Transceivers for SFP/SFP+ Ports (Optional)** | |
| | **Step 4: Mount (Optional)** | |
| | Aruba 7030-MNT-19 7030 Series Replacement 19-inch Rack Mounting Kit | JW086A |
| | Aruba SPR-WL2-MNT S1500-24/-48/S2500/S1500-24/-48/S2500 Wall and Rack Mount Kit | JW083A |

## Configuration Information

| | | |
|---|---|---|
| | **Step 5: Select Software (Optional)** | |
| | **Central** | |
| 1 | Aruba SUB1-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 1-year Subscription E-STU | JW455AAE |
| 1 | Aruba SUB3-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 3-year Subscription E-STU | JW456AAE |
| 1 | Aruba SUB5-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 5-year Subscription E-STU | JW457AAE |
| **Notes:** | Cloud web policy enforcement for 1 AP (NOT required for Access Points with Central Subscription) | |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 1 yr Subscription E-STU | R6U58AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 3 yr Subscription E-STU | R6U59AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 5 yr Subscription E-STU | R6U60AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 7 yr Subscription E-STU | R6U61AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 10 yr Subscription E-STU | R6U62AAE |
| **Rules:** | | |
| 1 | For use with iQuote. Do not model in OCx as it is already visible in the Aruba Catalog under Network Management. | |
| 3 | Add the Central On-Prem Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > On-Prem Services | |

## 7030 Ordering Guide

| Remarks | Description | SKU |
|---|---|---|
| | **Step 1: Select the appropriate 7030 Chassis** | |
| | Aruba 7030 (RW) 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clients Controller | JW686A |
| | Aruba 7030 (US) 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clients Controller | JW687A |
| | Aruba 7030 (IL) 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clients Controller | JW688A |
| | Aruba 7030 (JP) 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clients Controller | JW689A |
| | Aruba 7030 (EG) 8x 1000BASE-T or 8xSFP64 AP Branch Controller | JY851A |
| | Aruba 7030 (RW) FIPS/TAA 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clnts Cntrlr | JW710A |
| | Aruba 7030 (US) FIPS/TAA 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clnts Cntrlr | JW711A |
| | Aruba 7030 (IL) FIPS/TAA 8p Dual Pers 10/100/1000BASE-T 1GBASE-X SFP 64 AP and 4K Clnts Cntrlr | JW712A |
| | Aruba 7030 (JP) FIPS/TAA 8p Dual Pers 10/100/1000BASE-T/1GBASE-X SFP 64 AP and 4K Clnts Cntrlr | JW713A |
| | **Step 2: Select AC power cord for main power supply for AC Powered Units** | |
| | PC-AC-ARG AC Power Cord (Argentina) 250V/10A 1.8m C13 to IRAM 2073 | JW113A |
| | PC-AC-AUS AC Power Cord (Australia) 250V/10A 1.8m C13 to AS3112 | JW114A |
| | PC-AC-BR AC Power Cord (Brazil) 250V/10A 1.8m C13 to NBR 14136 | JW115A |
| | PC-AC-CHN AC Power Cord (China) 250V/10A 1.8m C13 to GB2099 | JW116A |
| | PC-AC-DEN AC Power Cord (Denmark) 250V/10A 1.8m C13 to AFSNIT 107-2-D1 | JW117A |
| | PC-AC-EC AC Power Cord (Europe) 250V/10A 1.8m C13 to CEE7/7 | JW118A |
| | PC-AC-IN AC Power Cord (India) 250V/6A 1.8m C13 to IS1293 | JW119A |
| | PC-AC-IL AC Power Cord (Israel) 250V/10A 1.8m C13 to SI32 | JW120A |
| | PC-AC-IT AC Power Cord (Italy) 250V/10A 1.8m C13 to CEI 23-50 | JW121A |
| | PC-AC-JPN AC Power Cord (Japan) 125V/12A 1.8m C13 to JISC 8303 | JW122A |
| | PC-AC-KOR AC Power Cord (Korea) 250V/7A 1.8m C13 to KSC 8305 | JW123A |
| | PC-AC-NA AC Power Cord (North America) 125V/10A 1.8m C13 to NEMA 5-15P | JW124A |

## Configuration Information

| | | |
|---|---|---|
| | PC-AC-SWI AC Power Cord (Switzerland) 220V/10A 1.8m C13 to SEV 1011 | JW125A |
| | PC-AC-UK AC Power Cord (United Kingdom) 250V/10A 1.8m C13 to BS1363 | JW127A |
| | PC-AC-ZA AC Power Cord (South Africa) 250V/10A 1.8m C13 to SANS 164-1 | JW128A |
| | **Step 3: Select Transceivers for Combo Ports (Optional)** | |
| **Notes:** | There are 8 combo ports on 7030 10/100/1000 or SFP | |
| | **Step 4: Mount (Optional)** | |
| | Aruba 7030-MNT-19 7030 Series Replacement 19-inch Rack Mounting Kit | JW086A |
| | **Step 5: Select Software (Optional)** | |
| | **Central** | |
| 1 | Aruba SUB1-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 1-year Subscription E-STU | JW455AAE |
| 1 | Aruba SUB3-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 3-year Subscription E-STU | JW456AAE |
| 1 | Aruba SUB5-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 5-year Subscription E-STU | JW457AAE |
| **Notes:** | Cloud web policy enforcement for 1 AP (NOT required for Access Points with Central Subscription) | |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 1 yr Subscription E-STU | R6U58AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 3 yr Subscription E-STU | R6U59AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 5 yr Subscription E-STU | R6U60AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 7 yr Subscription E-STU | R6U61AAE |
| 3 | Aruba Central On-Premises Campus Gateway Ctr Foundation 10 yr Subscription E-STU | R6U62AAE |
| **Rules:** | | |
| 1 | For use with iQuote. Do not model in OCx as it is already visible in the Aruba Catalog under Network Management. | |
| 3 | Add the Central On-Prem Skus to the Aruba Catalog as Standalone:<br>Aruba > Network Management > Central > On-Prem Services | |

## Related Options

| Transceivers | | | | |
|---|---|---|---|---|
| 7010 | 7024 | 7030 | Description | SKU |
| X[1] | X[1] | X[1] | Aruba 1G SFP LC LX 10km SMF Transceiver | J4859D |
| X[1] | X[1] | X[1] | Aruba 1G SFP LC SX 500m OM2 MMF Transceiver | J4858D |
| X[2] | X[2] | X[2] | Aruba 1G SFP LC LH 70km SMF Transceiver | J4860D |
| X[1] | X[1] | X[1] | Aruba 1G SFP RJ45 T 100m Cat5e Transceiver | J8177D |
| | X | | Aruba SFP-10GE-ER 10GBASE-ER SFP+ 1310nm LC Connector Pluggable 10GbE XCVR | JW147A |
| | X[1] | | Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver | J9150D |
| | X[1] | | Aruba 10G SFP+ LC LR 10km SMF Transceiver | J9151E |
| | X[1] | | Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver | J9152D |
| | X[1] | | Aruba 10G SFP+ LC ER 40km SMF Transceiver | J9153D |
| | X[1] | | Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable | J9281D |
| | X[1] | | Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable | J9283D |
| | X[1] | | Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable | J9285D |

**Notes:**

– [1] Default minimum ArubaOS software version is 6.5.3.0 and 8.1.0.0

– [2] Minimum ArubaOS software version is 6.5.4.7 and 8.4.0.0

For additional information on the Aruba 7000 Series Mobility Controllers please refer to:

- ArubaOS Network Operating System Data Sheet (and licenses) - **https://www.arubanetworks.com/assets/ds/DS_AOS.pdf**
- 7000 Series Mobility Controller – **https://www.arubanetworks.com/products/networking/controllers/7000-series/**
- 7000 Series Ordering Guide - **https://www.arubanetworks.com/assets/og/OG_7000Series.pdf**

## Software

### SD-WAN Cloud Subscription Licenses

| Remarks | Description | SKU |
|---|---|---|
| 2 | Aruba 70xx or 90xx Gateway Foundation 1yr Subscription E-STU | JZ118AAE |
| 2 | Aruba 70xx or 90xx Gateway Foundation 3yr Subscription E-STU | JZ119AAE |
| 2 | Aruba 70xx or 90xx Gateway Foundation 5yr Subscription E-STU | JZ120AAE |
| 2 | Aruba 70xx or 90xx Gateway Foundation 7yr Subscription E-STU | R0G52AAE |
| 2 | Aruba 70xx or 90xx Gateway Foundation 10yr Subscription E-STU | R0G53AAE |
| 1 | Aruba 70xx or 90xx Gateway Foundation Base Capacity 1yr Subscription E-STU | JZ124AAE |
| 1 | Aruba 70xx or 90xx Gateway Foundation Base Capacity 3yr Subscription E-STU | JZ125AAE |
| 1 | Aruba 70xx or 90xx Gateway Foundation Base Capacity 5yr Subscription E-STU | JZ126AAE |
| 1 | Aruba 70xx or 90xx Gateway Foundation Base Capacity 7yr Subscription E-STU | R0G56AAE |
| 1 | Aruba 70xx or 90xx Gateway Foundation Base Capacity 10yr Subscription E-STU | R0G57AAE |
| 2 | Aruba 70xx or 90xx Gateway Advanced 1yr Subscription E-STU | JZ121AAE |
| 2 | Aruba 70xx or 90xx Gateway Advanced 3yr Subscription E-STU | JZ122AAE |
| 2 | Aruba 70xx or 90xx Gateway Advanced 5yr Subscription E-STU | JZ123AAE |
| 2 | Aruba 70xx or 90xx Gateway Advanced 7yr Subscription E-STU | R0G54AAE |
| 2 | Aruba 70xx or 90xx Gateway Advanced 10yr Subscription E-STU | R0G55AAE |

### SD-aaS Licenses

| | | |
|---|---|---|
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation 1-year Subscription SaaS | JZ118AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation 3-year Subscription SaaS | JZ119AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation 5-year Subscription SaaS | JZ120AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Advanced 1-year Subscription SaaS | JZ121AAS |

## Related Options

| | | |
|---|---|---|
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Advanced 3-year Subscription SaaS | JZ122AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Advanced 5-year Subscription SaaS | JZ123AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation Base Capacity 1-year Subscription SaaS | JZ124AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation Base Capacity 3-year Subscription SaaS | JZ125AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation Base Capacity 5-year Subscription SaaS | JZ126AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation 7-year Subscription SaaS | R0G52AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation 10-year Subscription SaaS | R0G53AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Advanced 7-year Subscription SaaS | R0G54AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Advanced 10-year Subscription SaaS | R0G55AAS |
| 3 | HPE Aruba Networking 90xx or 70xx Gateway Foundation Base Capacity 7-year Subscription SaaS | R0G56AAS |

| **Rule #:** | **Configuration Rules** |
|---|---|
| 1 | Available only for 7005 and 7008 Series Controllers only |
| 2 | Available for all Controllers |
| 3 | For IRIS reference only. No action required for OCX and Clic |

## Mobility Controler Licenses

| | | |
|---|---|---|
| | Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-AW) Licence Bundle E-LTU | JW471AAE |
| | Aruba LIC-AP Controller per AP Capacity License E-LTU | JW472AAE |
| | Aruba LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU | JW473AAE |
| | Aruba LIC-RFP Controller RFProtect Per AP License E-LTU | JW474AAE |
| | Aruba LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU | Q9B90AAE |
| | Aruba Controller Web Content Classification 1 Year Subscription E-STU | JY028AAE |
| | Aruba Controller Web Content Classification 3 Year Subscription E-STU | JY029AAE |
| | Aruba Controller Web Content Classification 5 Year Subscription E-STU | JY030AAE |
| | Aruba Controller Web Content Classification 7 Year Subscription E-STU | JY031AAE |
| | Aruba Controller Web Content Classification 10 Year Subscription E-STU | JY032AAE |
| | Aruba LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU | Q9B90AAE |
| | Aruba LIC-7010-PEFV Controller Policy Enforcement Firewall for Aruba 7010 Cntrlr License E-LTU | JW496AAE |
| | Aruba LIC-7008-PEFV Controller Policy Enforcement Firewall for Aruba 7008 Cntrlr License E-LTU | JY342AAE |
| | Aruba LIC-7010-PEFV Controller Policy Enforcement Firewall for Aruba 7010 Cntrlr License E-LTU | JW496AAE |
| | Aruba LIC-7024-PEFV Controller Policy Enforcement Firewall for Aruba 7024 Cntrlr License E-LTU | JW497AAE |
| | Aruba LIC-7030-PEFV Controller Policy Enforcement Firewall for Aruba 7030 Cntrlr License E-LTU | JW498AAE |
| | Aruba LIC-VIA Per VIA Client Controller VPN License E-LTU | JZ148AAE |

**Notes:**

- For each AP attached to the controller the minimal configuration is 1xLIC-AP per AP. LIC-ENT (JW471AAE) is equivalent to 1 each of LIC-AP, LIC-REF, LIC-RFP, and LIC-AW.
- LIC-AW is a device license for AirWave Management system
- The PEFV enables firewall services on a per controller basis for VPN termination such as Aruba VIA, Aruba RAPs and IAP-VPN.
- PEFV license can also be used for VIA VPN termination. But PEFV is tied to a particular controller and the license capacity scales to the controller user capacity. On the other hand, LIC-VIA license is per VIA user license and is not tied to any particular controller. It can be transferred from one controller to another. Unlike PEFV, LICVIA supports centralized licensing and can be managed by Mobility Master or a Master Controller in AOS 8.x deployment.

## Technical Specifications

### Performance and Capacity

| Features | 7005 | 7008 | 7010 | 7024 | 7030 |
|---|---|---|---|---|---|
| Maximum campus or remote AP licenses | 16 | 16 | 32 | 32 | 64 |
| Maximum concurrent users/devices | 1,024 | 1,024 | 2,048 | 2,048 | 4,096 |
| Maximum VLANs | 4,096 | 4,096 | 4,096 | 4,096 | 4,096 |
| Active firewall sessions | 64K | 64K | 64K | 64K | 64K |
| Concurrent GRE tunnels | 256 | 256 | 512 | 512 | 1,024 |
| Concurrent IPsec sessions | 1,024 | 1024 | 2,048 | 2,048 | 4,096 |
| Concurrent tunneled ports | 1,024 | 1024 | 2,048 | 2,048 | 4,096 |
| Firewall throughput | 4 Gbps | 4 Gbps | 8 Gbps | 8 Gbps | 8 Gbps |
| Wired bridged throughput | 4 Gbps | 4 Gbps | 8 Gbps | 8 Gbps | 8 Gbps |
| Encrypted throughput 3DES | 1.2 Gbps | 1.2 Gbps | 2.4 Gbps | 2.4 Gbps | 2.4 Gbps |
| Encrypted throughput AES-CBC-256 | 1.3 Gbps | 1.3 Gbps | 2.6 Gbps | 2.6 Gbps | 2.6 Gbps |
| Encrypted throughput AES-CCM | 2.0 Gbps | 2.0 Gbps | 3.4 Gbps | 3.4 Gbps | 4.0 Gbps |
| Encrypted throughput AES-GCM-256 | 1.7 Gbps | 1.7 Gbps | 3.3 Gbps | 3.3 Gbps | 3.4 Gbps |

### Interfaces and Indicators

| Features | 7005 | 7008 | 7010 | 7024 | 7030 |
|---|---|---|---|---|---|
| Form factor/footprint | Desktop/ fanless | Desktop/ fanless | 1 RU | 1 RU | 1 RU |
| 10/100/1000BASE-T | 4 | 8 | 16 | 24 | 8 (combo) |
| 1000BASE-X | N/A | N/A | 2 SFP | N/A | 8 (combo) |
| 10G Ports (10G or 1G supported) | N/A | N/A | N/A | 2xSFP+ | N/A |
| USB 2.0 | 1 | 1 | 1 | 1 | 1 |
| Management/status LEDs | Yes | Yes | Yes | Yes | Yes |
| LINK/ACT and status LEDs | Yes | Yes | Yes | Yes | Yes |
| LCD panel and navigation buttons | No | No | Yes | Yes | Yes |
| Console port | Mini USB/RJ-45 | RJ-45 | Mini USB/RJ-45 | micro USB/RJ-45 | Mini USB/RJ-45 |
| Out-of-band management port | No | No | Yes | Yes | Yes |

## Technical Specifications

| Power Over Ethernet (PoE) Support | | | | | |
|---|---|---|---|---|---|
| **Features** | **7005** | **7008** | **7010** | **7024** | **7030** |
| **PoE [1]Role/Model** | Powered Device (PD) | Power Source Equipment (PSE) | PSE | PSE | - |
| **PoE In or Out** | In – Port 0 | Out | Out | Out | - |
| **Number of PoE+[2] capable Ports** | - | 8 | 12 | 24 | - |
| **Max concurrent of PoE Ports** | - | 8 | 12 | 24 | - |
| **Max concurrent PoE+ Ports** | - | 3 | 5 | 13 | - |
| **PoE Power Budget** | - | 100W | 150W | 400W | - |

**Notes:**

– [1] PoE: 802.3af, 15.4W from the PSE and 12.95W at the PD

– [2] PoE+: 802.3at, 30W from the PSE and 25.5W at the PD

| Physical | | | | | |
|---|---|---|---|---|---|
| **Features** | **7005** | **7008** | **7010** | **7024** | **7030** |
| **Dimensions (H x W x D)** | 4.1 cm x 20 cm x 20 cm (1.6" x 7.9" x 7.9") | 4.2 cm x 20.32 cm x 20 .32cm (1.65" x 8.0" x 8.0") | 4.42 cm x 31.75 cm x 33.7 cm (1.74" x 12.75" x 13.3") | 4.37 cm x 44.2 cm x 31.3 cm (1.72" x 17.4" x 12.32") | 4.4 cm x 30.5 cm x 21.1 cm (1.7" x 12" x 8.3") |
| **Weight** | 0.92 kg (2.03 lbs) | 1.0 kg (2.2 lbs) | 3.4 kg (7.5 lbs) | 5.127 kg (11.3 lbs) | 2.06 kg (4.54 lbs) |
| **MTBF (hours, @ 25C)** | 323,896 | 300,000 | 232,843 | 311,901 | 390,679 |

| Environmental Range | | | | | |
|---|---|---|---|---|---|
| **Specification** | **7005** | **7008** | **7010** | **7024** | **7030** |
| **Operating temperature** | 0° C to 40° C | | | | |
| **Storage temperature** | -40° C to 70° C | | | | |
| **Humidity/storage humidity** | 5% to 95%, NC | 5% to 95%, NC | 5% to 95%, NC | 10% to 95%, NC | 5% to 95%, NC |
| **Operating altitude** | 10,000 feet | | | | |
| **Acoustic noise1** | 0 dBA (fanless) | 0 dBA (fanless) | 39.8 – 58.6 dBA | 34.3 – 71.2 dBA | 29.1 – 57.4 dBA |
| **Maximum power consumption** | 16.6 W (with USB) | 126W with PoE (26W without PoE) | 190 W (with PoE) | 450 W (with PoE) | 55 W |
| **Power Source** | PoE or 12v - 30W | 150-watt power supply | internal power supply | internal power supply | internal power supply |

## Technical Specifications

| Power Adapter and Supply Specifications | | |
|---|---|---|
| **Features** | **12v – 30W** | **150-watt** |
| **Input voltage range** | 90 VAC to 264 VAC | 90 VAC to 264 VAC |
| **Output Voltage** | +12VDC, 4A | 54VDC, 2.78A |
| **Input frequency** | 47-63 Hz | 47-63 Hz |
| **AC line input current (steady state)** | 1.0A | 2.0A |
| **Operating Temperature** | -0o to +40o C | -0o to +40o C |
| **Cooling** | - | - |
| **Weight** | .24 kg (.53 lbs) | .72 kg (1.58 lbs) |

## Regulatory and Safety Compliance

### Safety certifications

- UL 60950-1 Second Edition
- CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition
- EN 60950:2005
- IEC 60950-1 Second Edition
- NOM (obtained by partners and distributors)

### Electromagnetic emissions certifications

- FCC Part 15 Class B CE AS/NZS CISPR22 Class B
- CISPR22 Class A (7010, 7024, 7030), Class B (7005)
- EN55022 Class A (7010, 7024, 7030), Class B (7005)
- ICES-003 Class A (7010, 7024, 7030), Class B (7005)
- VCCI Class A (7010, 7024, 7030), Class B (7005) EN61000-3-2
- EN61000-3-3
- EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4- 6, EN 61000-
- 4-8, EN 61000-4-11, AS/NZS 3548
- KN22 Class B KCC
- CNS13438 Class B EN55024/CISPR24 KN24
- Industry Canada Class B
- CE mark, cTUVus, CB, C-tick, Anatel, NOM, MIC

### Telco

- Common Language Equipment Identifier (CLEI) Code

### Regulatory SKU information

- ARCN01014(7005), ARCN0103(7010), ARCN7024(7024), ARCN7030(7030)

### Minimum ArubaOS Release

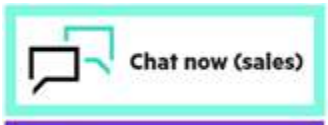
- 7005, AOS 6.4.1.0; 7010, AOS 6.4.1.0; 7024, AOS 6.4.3.0; 7030, AOS 6.4.1.0

## Summary of Changes

| Date | Version History | Action | Description of Change |
|---|---|---|---|
| 06-Nov-2023 | Version 13 | Changed | Obsolete SKUs were deleted and Configuration Information section was updated |
| 16-Aug-2021 | Version 12 | Changed | Obsolete SKUs were deleted in Configuration Information section. |
| 07-Jun-2021 | Version 11 | Changed | Obsolete SKUs were deleted in Configuration Information section.<br>Technical Specifications section was updated. |
| 15-Mar-2021 | Version 10 | Changed | SKUs added in Configuration Information section. |
| 01-Feb-2021 | Version 9 | Changed | SKUs updated in Configuration Information section. |
| 11-Jan-2021 | Version 8 | Changed | Standard Features section was updated. |
| 05-Oct-2020 | Version 7 | Changed | Configuration Information section was updated.<br>Obsolete SKUs were removed. |
| 04-Nov-2019 | Version 6 | Changed | Overview, Standard Features, Configuration Information and Technical Specification sections were updated. |
| 03-Dec-2018 | Version 5 | Changed | Document name changed to Aruba 7000 Series Mobility Controllers<br>Complete document revised (software feature update) |
| 08-Jan-2018 | Version 4 | Added | SKUs added: Q9B90AAE, JW538AAE, JW539AAE, JW540AAE, JW541AAE, JW542AAE, JW543AAE, JW544AAE, JY028AAE, JY029AAE, JY030AAE, JY031AAE, JY032AAE |
| 07-Aug-2017 | Version 3 | Changed | Aruba footer removed.<br>Family series photo updated. |
| 07-Nov-2016 | Version 2 | Added | Models added: JY849A, JY850A, JY851A |
| 01-Nov-2016 | Version 1 | New | New QuickSpecs |

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