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

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

Step 5: Select Software (Optional)

Remarks	Description	SKU
	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: 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
	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
	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: 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
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

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

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

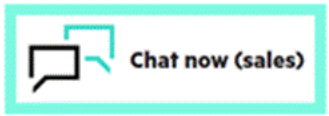
- 7005, AOS 6.4.1.0; 7010, AOS 6.4.1.0; 7024, AOS 6.4.3.0; 7030, AOS 6.4.1.0

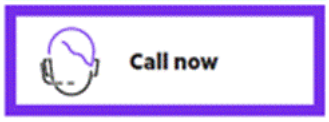
Summary of Changes

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. 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. 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 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. Family series photo updated.
07-Nov-2016	Version 2	Added	Models added: JY849A, JY850A, JY851A
01-Nov-2016	Version 1	New	New QuickSpecs

Copyright

Make the right purchase decision. Contact our presales specialists.







© Copyright 2023 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Hewlett Packard Enterprise

To learn more, visit: **http://www.hpe.com/networking**

c05272689 - 15702 - Worldwide - V13 - 06-November-2023